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THIRD SIX MONTHLY REPORT ON  
EXPLORATION LICENCE 6/79 (CATAMARAN)  
TASMANIA  
FOR PERIOD 16.5.81 TO 15.11.81  
BY  
W.R. BARBOUR.

12-11-81.

**MICROFILMED**

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- 1.0 INTRODUCTION
- 2.0 EXPLORATION
- 3.0 EXPENDITURE

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- I Statement of Expenditure and Statutory Declaration
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## 1.0 INTRODUCTION

Exploration Licence 6/79 (Catamaran) covers an area of 136 square kilometres in the vicinity of Recherche Bay, south-eastern Tasmania. It was granted to Marathon Petroleum Australia, Ltd. on 16th May, 1980 for a period of six months (6) and renewed on 16th November, 1980 and 16th May, 1981.

## 2.0 EXPLORATION

Work for the period 16th May, 1981 to 15th November, 1981 included:-

- a) The plotting and interpretation of ground magnetic survey results including 47 line kilometres completed on 14th May, 1981.
- b) The reduction, plotting and interpretation of gravity survey results by Leaman Geophysics (see Appendix II). The report covers all gravity work by Layton and MPAL, a total of 715 stations.
- c) The production of a set of 1:50 000 geological and geophysical maps of the exploration licence. The maps conform with the new Mines Department Guidelines.
- d) Preparation for a 1000m stratigraphic drilling programme with geophysical logging, expected to commence 11th November, 1981.

MPAL has retained the services of H.J. Stackpoole for the drilling, BPB for down hole geophysical logging and Leaman Geophysics for geophysical interpretations.

The geophysical surveys have indicated a down faulted corridor of prospective coal measures extending north from the old Catamaran workings in five fault bounded blocks. Each block will be tested by drilling.

## 3.0 EXPENDITURE

Marathon Petroleum Australia, Ltd. have spent \$27,614.86 on exploration of this area during the six months. A detailed Statement and Statutory Declaration are attached as Appendix I.

APPENDIX I

Statement of Expenditure and Statutory Declaration.

Statement of Expenditure  
For Period 16.5.81 to 15.11.81

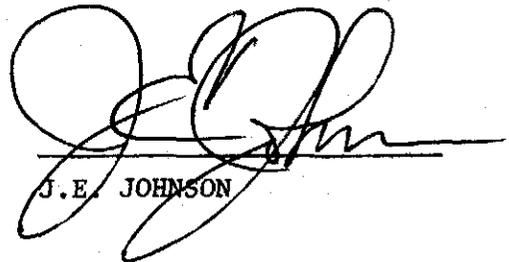
	\$
Salaries & Associated Costs	5,424.25
Motor Vehicle Rental	1,507.43
Commerical Transportation	186.10
Office Supplies	66.20
Communications	246.79
Motor Vehicle Expenses	112.80
Aircraft Hire	5,122.50
Miscellaneous	21.17
Technical Publications	93.75
Contract Services	949.65
Reproduction Expense	189.23
Freight	48.27
Materials & Supplies	119.16
Field Equipment Expense	3,036.40
Camp Costs	20.51
Geological Services	3,509.15
Geophysical Services	3,025.00
Gravity Surveys	1,050.00
Data Processing	376.06
Administrative Services	2,510.44
	<hr/>
	\$ 27,614.86
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STATUTORY DECLARATION

I, JAMES E. JOHNSON, FINANCIAL CONTROLLER OF MARATHON PETROLEUM AUSTRALIA, LTD. DO SOLEMNLY AND SINCERELY DECLARE THAT THE EXPENDITURE SHOWN BELOW (AND DETAILED ON THE ATTACHED STATEMENT) WAS EXPENDED ON EXPLORATION LICENCE 6/79 FOR THE PERIOD 16TH MAY, 1981 TO 15TH NOVEMBER, 1981.

EXPENDITURE FOR PERIOD 16.5.81 TO 15.11.81 WAS \$27,614.86.

Signed At Brisbane )  
this 9th day of )  
November 1981. )

  
J.E. JOHNSON



Witness

APPENDIX II

Consultants Report by Leaman Geophysics.

INTERPRETATION OF GEOPHYSICAL SURVEYS  
CATAMARAN AREA (E.L. 6/79)

by  
LEAMAN GEOPHYSICS

for  
MARATHON PETROLEUM (AUST.) LTD.

September, 1981

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SUMMARY:

Results from a detailed gravity survey and magnetometer traverses across the Catamaran Coal field in Southern Tasmania have been interpreted. The surveys were undertaken to provide definition of the extent of Triassic coal measures and the significance of Jurassic dolerite intrusions.

Although the surveys have demonstrated that many mapped dolerite bodies are largely illusory - being dolerite talus - several dolerite feeders have been identified and dolerite is present at variable depth in all sections of the area east of the Lune River Fault. The gravity data do, however, suggest substantial sections of coal-bearing rocks immediately east of the Lune River Fault from Ida Bay to Catamaran River. The greatest depth to dolerite is of the order of 400m. but it is generally no deeper than 70 - 120m. on the eastern side of the coalfield. Unfortunately, extensive faulting is also implied.

The Lune River Fault possesses a clear magnetic signature and the gravity survey has also located a sizeable granitic stock in the pre-Permian basement.

INTRODUCTION:

The Catamaran area is located south of Dover in Southern Tasmania. It is variably, but often thickly, vegetated and of moderate relief. Access is often poor. Coal has long been known in the area and it has been worked in several small operations. The coal-bearing potential of the region is currently under examination by Marathon Petroleum Australia Ltd. (exploration licence EL 6/79).

Prior to commencement of an extensive drilling programme it was thought advisable to attempt an improved definition of the extent of coal measures and the distribution of dolerite bodies including an indication of faulting. Dolerite or dolerite talus appears to conceal parts of the coal-bearing units but surface mapping cannot reliably indicate the structural form or nature of the material. Continuity of deposit and possible reserve are vitally affected by intrusion form.

The magnetometer traverses were intended to complement the geological map and resolve dolerite outcrop or dolerite talus and differentiate between those areas where talus overlies dolerite or coal measures. The gravity survey was undertaken to define the overall structure of the area, the form of intrusions and the overall extent of the Triassic coal measures.

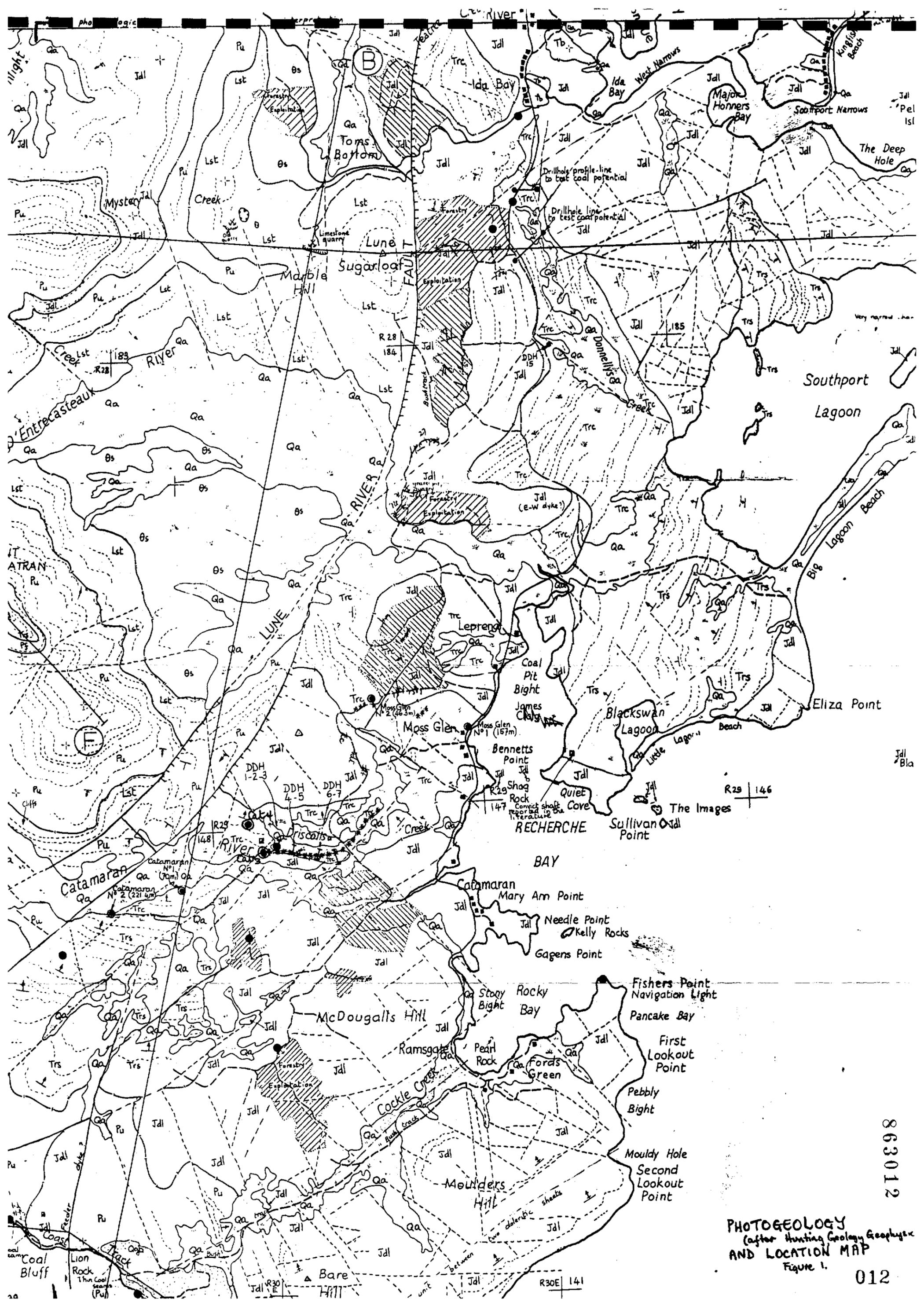
This report provides an interpretation of the magnetic and gravity data within the constraint of available photo interpreted geological control.

GEOLOGY AND ROCK PROPERTIES:

The geology of the area is summarised in Figure 1, which is a reproduction of part of the photogeology interpretation provided Marathon by Hunting Geology and Geophysics (Aust.) Pty. Ltd. Several rock units are indicated which are relevant to the interpretation:

1. Ordovician limestone, with minor siltstone (Olmst); sandstone (Os).
2. Permian undifferentiated. Permian rocks are exposed west of the Lune River Fault and are, with the exception of an upper coal sequence (Cygnet Coal Measures), marine sandstones, siltstones. The section is up to 600m. thick.
3. Triassic rocks provide the bulk of the sedimentary exposures between the Lune River Fault and the D'Entrecasteaux Channel and have been divided into two units. The lower unit (Trs) is a quartz sandstone/mudstone succession with little or no coal. The upper unit (Trc) is the coal bearing feldspathic sequence. The thickness of each unit is unknown but drilling and dip deductions suggest that each unit is at least 200-250m. thick.
4. Jurassic dolerite (Jdl). The ubiquitous Tasmanian dolerite dominates much of the relative lowland east of the Lune River Fault where it intrudes both Triassic units. There is no evidence of intrusion into pre-Triassic rocks west of the Fault except at Lune Sugarloaf. The scale of the intrusions cannot be gauged from surface mapping but they are more than 100-150m. thick.
5. Tertiary basalt (Tb) overlies Triassic rocks south of Lune River and east of Lune Sugarloaf. The geological map (Figure 1) incorrectly suggests 'structured' dolerite. The photo texture reflects the bases of the various flows. Some lacustrine sediments and tuffs are interbedded.
6. Quaternary talus (Qt). No talus deposits are indicated in Figure 1, although nearly half of each dolerite 'mass' could be represented as such. Not all deposits can be identified by surface inspection. Block size varies from a few centimetres to several metres and the matrix content of red-brown clay, soil or grey clay may range from nil to more than half the volume. Similar deposits are common in the northern basalt areas although the block size is generally smaller. The thickness of either talus type is extremely variable.

Both igneous rocks and their derived products are strongly and often variably magnetic. Typical susceptibility values lie in the range  $5-20 \times 10^{-3}$  S.I. although some coarse grained dolerites exceed  $50 \times 10^{-3}$  S.I. No data is available on the natural remanence of either rock type in this area but typical magnetisation values for Huon/Channel dolerites are 0.2 to 10 Amp/m; average 2 A/m. The Koenigsberger ratio ranges from 0.5 to 10 (ratio of remanent/induced magnetisation).



PHOTOGEOLOGY  
 (after Hunting Geology Geophysics  
 AND LOCATION MAP  
 Figure 1.

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Unfortunately timing of the project, supply of data for interpretation and need for early provision of interpretation has precluded specific sampling for rock density or magnetic property determinations. The table below summarises available density data which has been extracted from observations for the materials in adjacent areas. It may not be wholly reliable as a result:

	Range: t/m <sup>3</sup>	@ Av. t/m <sup>3</sup>	* Contrast t/m <sup>3</sup>	Attraction/ 100m.mgal
Ordovician limestone:	2.72-2.76	2.75	+0.08	+0.33
Permian undiff:	2.35-2.60	2.48	-0.19	-0.80
Triassic undiff:	2.32-2.40	2.36	-0.31	-1.30
Jurassic dolerite:	2.80-3.20	2.90	+0.23	+0.96
Tertiary basalt:	2.80-3.20	2.95	+0.28	+1.17
Quaternary talus:	1.90-2.50	2.20	-0.47	-1.97

@ average: assumption based on allowance for varied composition.

\* contrast: vs 2.67 t/m<sup>3</sup>

MAGNETIC SURVEY:

A number of magnetometer traverses have been observed by Marathon staff using a fluxgate magnetometer. Proton magnetometers are not recommended in dolerite terrain since high gradients and potential non reproducibility of results can cause problems for observers. The added precision is not required in any event.

The location of the traverses and interpretation of the profiles is summarised in Figure 2.

Several magnetic field - rock property signatures have been used to provide the qualitative interpretation and boundary location.

- a) Rocks west of the Lune River Fault have a very flat, slightly stepped magnetic character. This is typical of non magnetic siliceous or calcareous materials such as the Permian formations or the Ordovician limestone. The fault is clearly identified on most lines, though it may be disguised by adjacent dolerite bodies (e.g. GS54 to 679 or line 2 from GS28).
- b) Massive dolerite, or basalt, is recognised by high frequency high amplitude anomalies. Deep weathering or thick talus cover sometimes obscures this character but the presence of dolerite is usually indicated by muted responses.
- c) Talus deposits may also be identified by high frequency anomalies but of low amplitude. The character is most easily recognised where the deposits overlie sedimentary rocks. Only where the deposit is thick and on dolerite is there any doubt. Dolerite is identified.
- d) Coal measures may be recognised by low frequency, low amplitude variations (less than 50nT).

On site verification of many facets of the interpretation shows the method to be a reliable mapping aide. The interpretation may be contrasted with the 'geological' map (Figure 1). So many differences were evident that on site inspection became essential. The magnetic guide was found to be the more reliable. No great credence should be attached to many parts of the photo interpretation (Fig.1). This is unfortunate since the detailed interpretation discussed below is dependent on the quality of the geological input.

The traverses show that :

- i) the position of the Lune River Fault is reasonably located.
- ii) the basalts in the north of the area (not shown in Fig. 1) are patchy and not especially significant structurally or magnetically.
- iii) dolerite is limited in exposure north of the Catamaran River. Talus is common. Elsewhere, deep weathering is frequently observed.
- iv) in-situ dolerite forms only a small part of the area between the Catamaran and D'Entrecasteaux Rivers (much less than implied by photo interpretation).
- v) dolerite underlies significant sections of the coal field.

Several traverses across exposed Triassic rocks indicate dolerite at some relatively shallow depth. Subdued, smoothed anomalies with amplitudes of several hundred nano Teslas can be separated from the data. The table below provides maximum depth estimates of the depth to dolerite in typical cases.

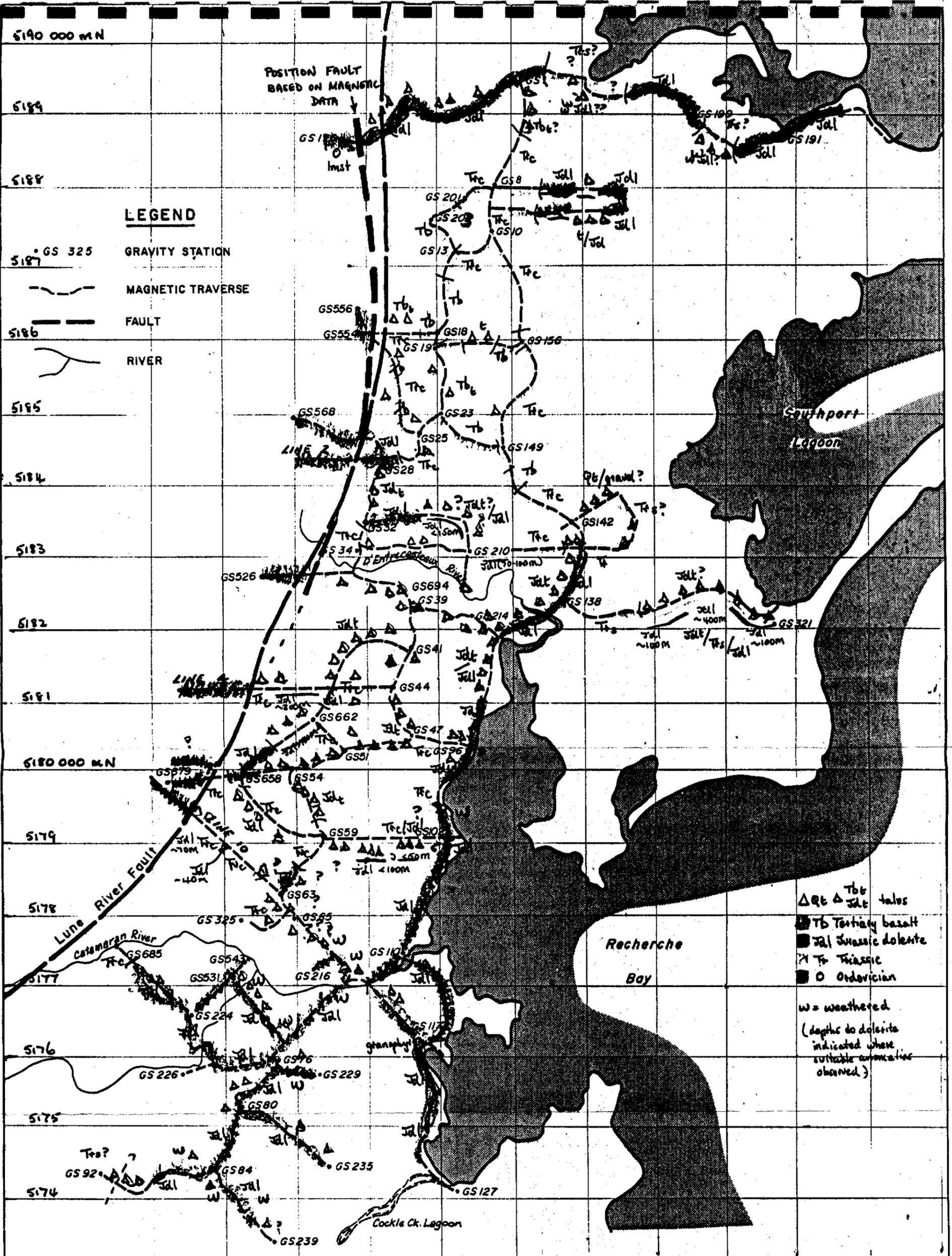
1. 500m E of GS210: 491900/5183100, 70-100m
2. 1100m NW of GS63: 488000/5179000, ca.40m
3. 1400m NW of GS63: 487700/5179200, ca.70m
4. 400m NW of GS210: 491200/5183500, <150m (under talus)
5. SW of GS662: 489000/5180500, >100m
6. 1000m E of GS138: 494000/5182200, ca.100m
7. 2000m E of GS138: 494800/5182500, ca.400m
8. adj.GS321: 495500/5182000, ca.100m
9. 600m E of GS59: 490000/5179000, 70-100m
10. 1000m E of GS59: 490400/5179000, 50-100m
11. 800m W of GS44: 489500/5181150, ca.300m

The above estimates may be placed in perspective by evaluation of an anomaly near Moss Glen where the interpreted depth was a maximum of 220m. The actual depth is 139m. The discrepancy suggests anomaly definition deficiencies, invalid property assessments, or a more complex structure (see Figure 7). Other estimates could be in error but it will be noted that dolerite occurs within 100m of the surface in most of the areas sampled.

The traverses have pinpointed some basalt dykes which yield characteristic anomaly forms (e.g. near GS142, 148, 156) and some small fault anomalies (e.g. near GS102).

Much more might have been made of the magnetic data if smoothed, corrected for diurnal variations and storm activity, and contoured. It has not been possible for the writer to do this since only unrelated profile plots were provided for interpretation. However, given the extent of the gravity coverage and the desire to use the magnetic method as a mapping aide such work is probably not justified.

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**LEGEND**

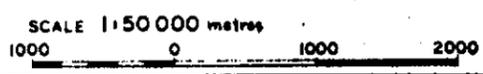
- GS 325 GRAVITY STATION
- - - MAGNETIC TRAVERSE
- FAULT
- ~ RIVER

- △ Qe △ Tb talos
- Jdl Tertiary basalt
- Jdl Jurassic dolerite
- Tr Triassic
- O Ordovician
- w = weathered
- (depths to dolerite indicated where suitable annotations observed)

MAGNETICS:  
 TRAVERSE LOCATION  
 INTERPRETATION SUMMARY

Leaman Geophysics

Fig 2



MARATHON PETROLEUM AUSTRALIA, LTD.  
 BRISBANE AUSTRALIA  
 CATAMARAN - TASMANIA  
 EL 6/79 TASMANIA PROJECT  
 PLAN SHOWING  
 LOCATION OF GROUND MAGNETIC TRAVERSE

Drawn by B.A.W. Plan No. CIA3-T5/2 Date Jun. 81

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The gravity field compilation shown in Figure 3 has been derived from three sources; Marathon commissioned survey by Layton Geophysical International, Bureau of Mineral Resources gravity file data, Marathon undertaken in-fill survey. All surveys have been tied to the national Isogal network in Hobart. The local base station at the Dover Hotel has a gravity value of 980489.20 mgal.

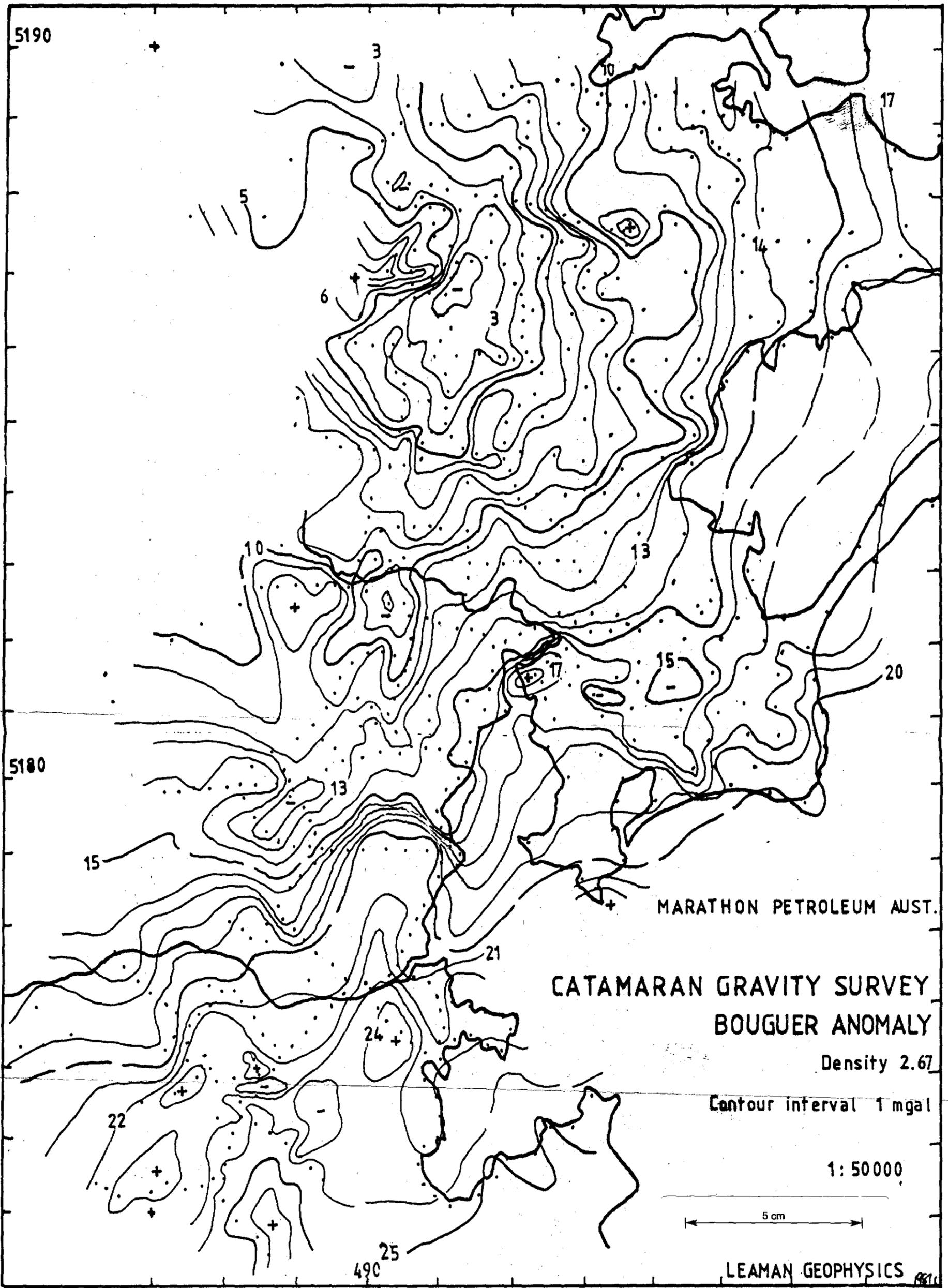
All three sources have been normalised, corrected and reduced using a density of  $2.67 \text{ t/m}^3$ . BMR stations have been used to provide an indication of regional trends beyond the region of detailed coverage. All stations have been terrain corrected to a radius of 21 km. in order to remove the effect of the La Perouse massif across the area. Overall precision of the reductions is estimated at 0.25 - 0.30 mgal. Most of the errors are related to barometric elevation determinations. Many stations, most belonging to the Layton set, have a precision of about 0.05 - 0.10 mgal.

Some problems were encountered with the in-house reduction of the in-fill survey data and the reduction sequence was transferred to Leaman Geophysics. Reduction details for this data are included in the Appendix.

The Bouguer anomalies (Figure 3) increase coastward from a value of about 3.5 mgal to 26 mgal. Inspection of the anomalies reveals a range of wavelengths - only some of which are relevant to the shallow structural objectives of the survey in this area. Regional-residual separations have been effected using sinc x filter methods and grid apertures of 1, 2 and 4 km. The regional field for the 2 and 4 km. apertures is shown in Figures 4 and 5. Both versions of the regional field reveal gross trend changes and the regional BMR data suggest closure of the negative anomalous feature centred on Lune Sugarloaf. A sizeable granite stock is implied at shallow depth in the basement and this conclusion may have important ramifications for mineralisation of susceptible Ordovician limestones. The 1 and 2 km filters retain several shallow source features and cannot be used to provide a residual containing all short wavelength anomalies. All target structures lie within about a kilometre of the surface and the spectral content of the 4 km filter reflects sources at greater depth. Thus the residual derived from this filter contains all the desired information (Figure 6).

Review of the density-attraction table (page 5) permits an immediate review and qualitative assessment of the anomalies. For the purposes of qualitative interpretation we may assume, since the materials nowhere outcrop east of the Lune River Fault, that the basement is homogeneous and the Permian sequence is uniform in thickness and content. Most of the anomalies observed are directly related to the distribution and form of Triassic rocks and dolerite. These materials may interplay to yield a range of residual anomalies:

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MARATHON PETROLEUM AUST.

CATAMARAN GRAVITY SURVEY  
BOUGUER ANOMALY

Density 2.67

Contour interval 1 mgal

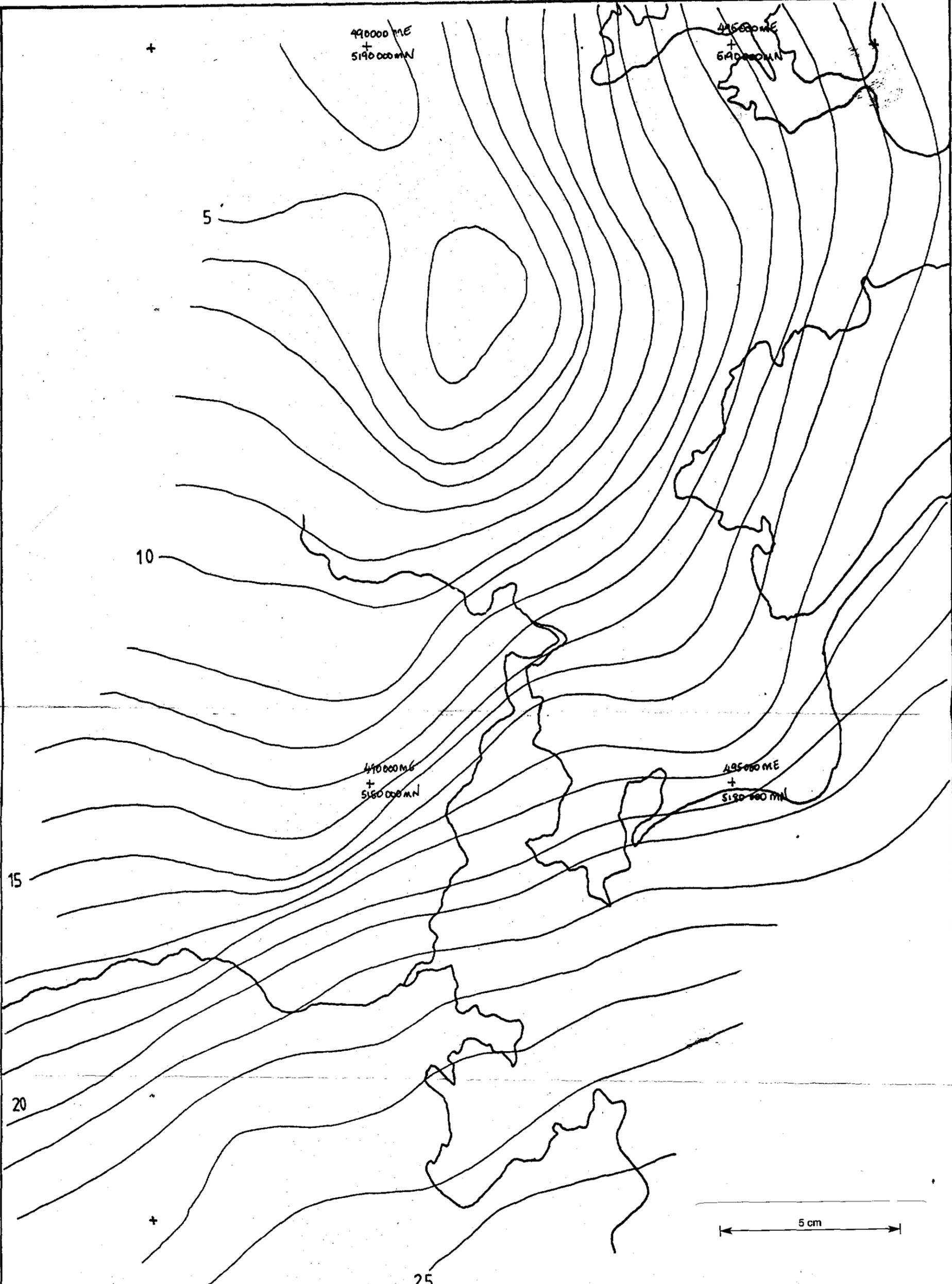
1:50000

5 cm

LEAMAN GEOPHYSICS

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CATAMARAN GRAVITY SURVEY : REGIONAL BOUGUER ANOMALY

DENSITY : 2.67

FILTER : 2 km

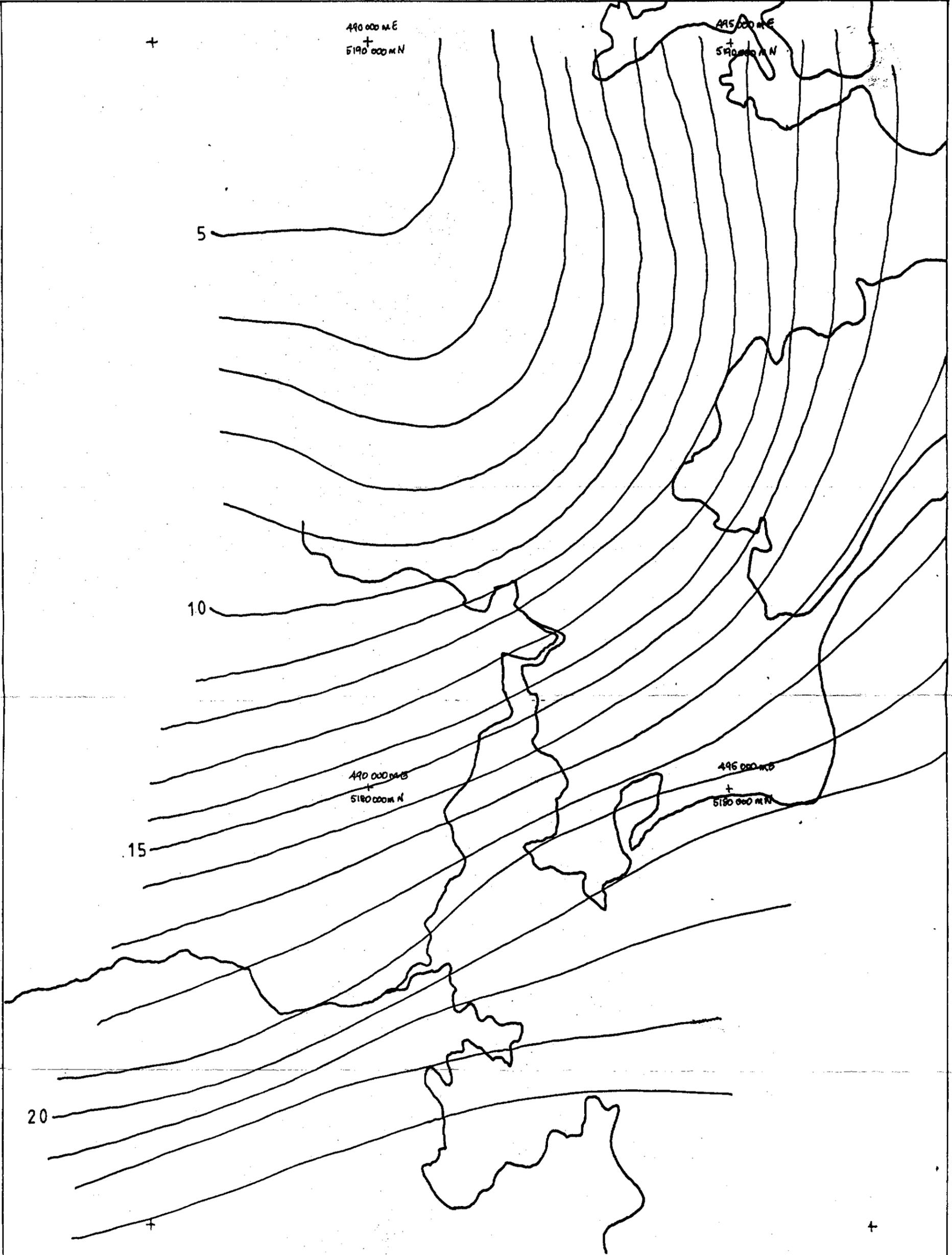
1 : 50000

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Leaman Geophysics 1981

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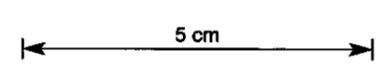


**CATAMARAN GRAVITY SURVEY : REGIONAL BOUGUER ANOMALY**

DENSITY: 2.67

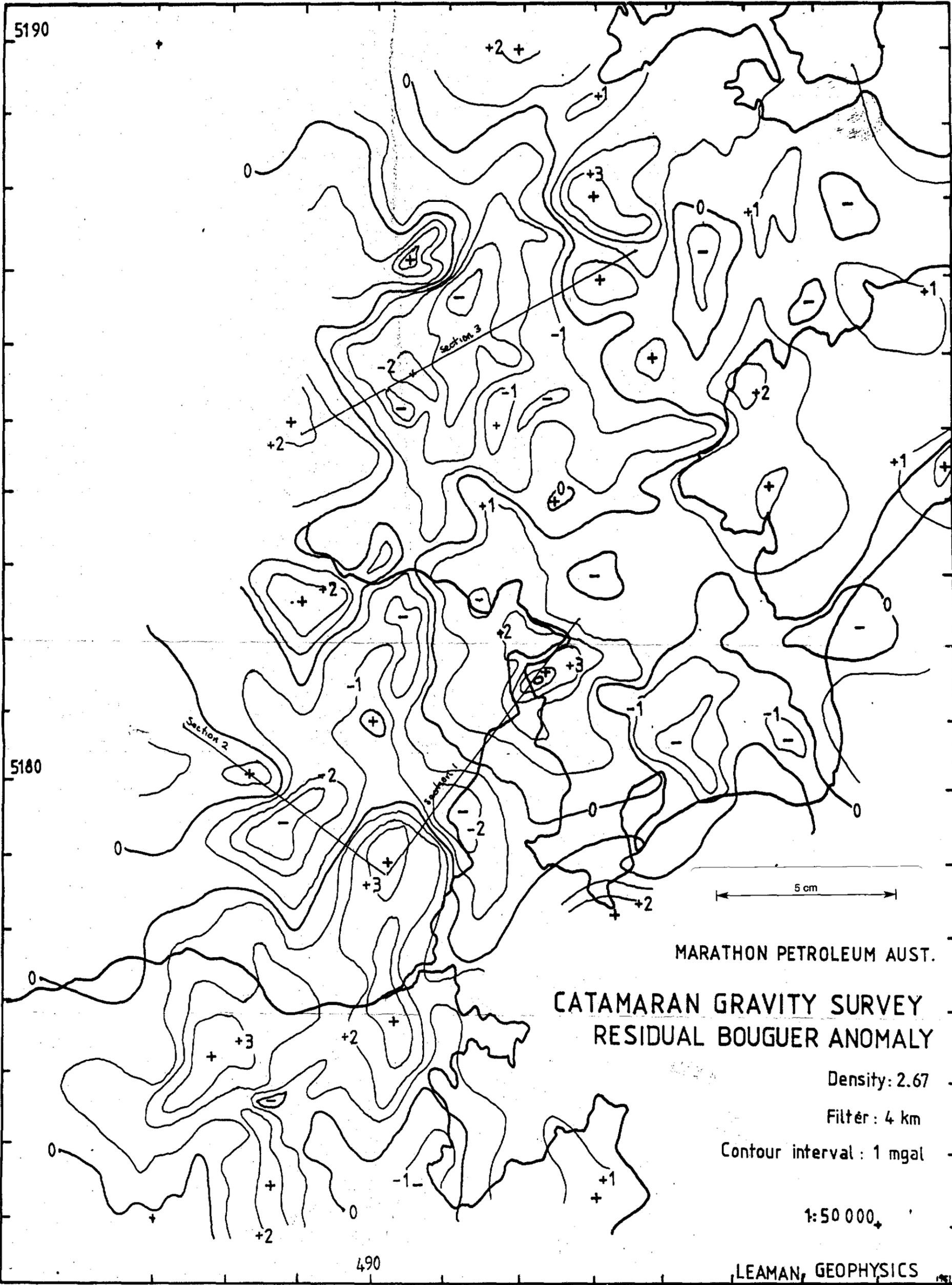
FILTER: 4 km

1:50 000  
MARATHON PETROLEUM AUST. LTD



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Om Jdl: 0.00	100m Jdl: 0.96	200m Jdl: 1.92
400m Tr: <u>-5.20</u>	300m Tr: <u>-3.90</u>	200m Tr: <u>-2.60</u>
	<u>-5.20</u>	<u>-2.94</u>
		<u>-0.68</u>
300m Jdl: 2.88	300m Jdl: 2.88	300m Jdl: 2.88
100m Tr: <u>-1.30</u>	200m Tr: <u>-2.60</u>	300m Tr: <u>-3.90</u>
	<u>1.58</u>	<u>-1.02</u>
		<u>0.28</u>
300m Jdl: 2.88	Om Jdl: 0.00	300m Jdl: 2.88
400m Tr: <u>-5.20</u>	200m Tr: <u>2.60</u>	Om Tr: <u>0.00</u>
	<u>-2.32</u>	<u>2.88</u>
		<u>-2.60</u>

While the values obtained need not be directly comparable with the residual values (Figure 6), two things are certain. Firstly, if the residual value is positive and in excess of 2 mgal, dolerite must dominate the section. This conclusion remains true whether the sedimentary content is absent or substantial. What cannot be determined qualitatively is the depthwise distribution of the rock types. If dolerite is exposed then surface inspection may aid deduction of the sheet proportion remaining hidden in the section. Secondly, if the residual value is strongly negative then sedimentary rocks dominate the section. If a negative anomaly is associated with outcropping dolerite then either the dolerite is a thin capping sheet or the sedimentary section is substantial. Alternatively, where the negative anomaly is associated with exposed sedimentary rocks a thick section is again implied. But in this case no indication of the position of included dolerites may be possible.

It will be evident, however, that anomalies in the range -1.5 to +1 mgal could be associated with a range of rock combinations. The calculations suggested in the above table have made certain assumptions concerning the thicknesses of dolerite or Triassic rocks to be found. A typical dolerite sheet is of the order of 300m thick but some are known (elsewhere) to exceed 400m. No reliable information is available on the thickness of the Triassic rocks and the figures yield the relative effect of section changes. It will be clear that density assumption errors will also affect the conclusions but in a relatively minor way since the values used for the two materials are unlikely to be in error by more than about 0.03 t/m<sup>3</sup>.

A more important source of ambiguity lies in the assessment of the actual intruded horizon. If an area has been faulted prior to intrusion, as is general in Tasmania, dislocated again at the time of intrusion and again in late Tertiary times then it may not be easy to reconstruct the form of the intrusions without the presence of some geological markers and a scale for the rock section. This geological history means that the site of intrusion may vary from fault block to fault block and thus the relative proportions of each rock remaining in each block may differ markedly. Since the gravity data can give a relative assessment of the proportions, input of surface geological control can often lead to an accurate estimate of intrusion level and section status, so revealing any faults. This is not guaranteed in this area since the geological markers required are absent or, at least, not mapped. Even so, the gravity data can be used to infer the location of the faults if not to reliably estimate the displacements.

The anomalies shown in Figure 6 range from -4 to +5 mgal, or 9 mgal. This is not markedly different from the range suggested in the section calculations and suggests a possible Triassic/dolerite normal balance of 450/350m or an extreme of at least 320/550m. However, the normal variation is from -1.5 to +1 mgal, a range of 2.5 mgal, which is consistent - excluding the effect of depth changes - with section changes involving a little over 100m of material:

e.g. 300m Jdl: 2.88      400m Jdl: 3.84  
 200m Tr: -2.60 to 100m Tr: -1.30  
           0.28                      2.54

a change of +2.26 mgal.

This type of calculation presumes that the overall section, including intrusions, remains of the same order and it is then representative of fault-dilation or intrusion horizon changes. It also shows that if dolerite is locally exposed and also implied within the adjacent rock block (by residual values near zero) then the amount of sedimentary overburden will rarely exceed 100m.

The above discussion was intended to stress the importance of sound geological background data. In the writer's experience surface mapping of an area is essential to high quality structural interpretations since it provides reliable control for the geophysical evaluation of structural options in the third dimension. In this case the magnetic observations have improved the situation in respect of igneous boundaries but detail on faulting and markers within the sedimentary sequence is lacking. Consequently both qualitative and quantitative methods of interpretation carry excessive ambiguities. This point may be emphasized by considering the restricted drilling data available (see Figure 1).

Hole	Cat.1	Cat.2	Cat.3	Cat.4	Moss Glen 1
Dolerite at (m)	66	210	19	111	138
Residual field(mgal)	-0.5	*0	+1.0	-0.5	-2.2

\*not well defined value

If absolute value considerations are ignored the relative components of the field at each site can be assessed. Assume a 300m thick dolerite sheet in each case.

Tr (m)	66	210	19	111	138
Jdl (m)	300	300	300	300	300
Tr (m)	ca. 200	0	125	ca.150	ca.250
Attraction(mgal)	- 0.6	+0.2	+1.0	-0.5	-2.2

The above tabulation confirms two features of the interpretation; the sedimentary section is either extensively faulted or very erratically intruded and that interpretation must relate adjacent blocks and not attempt bulk area assessments.

The Lune River Fault is not well defined gravimetrically, probably because the station density is very patchy west of it. Some anomaly correlation is suggested north of 5187000mN and south of 5180000mN where coverage is improved. A number of other trends are evident - some coincident with photo interpreted features. Many are shown in Figure 10. The presumed eastern limit of the coal bearing sequence is also shown.

Dolerite is clearly dominant south and west of Catamaran. The mass is irregular in form but the +1 to +2 residual values imply much dolerite and/or little sedimentary section. Exposures west of McDougalls Hill suggest intrusion near the base of the Triassic sequence and the residual values suggest more than 200m of dolerite. Peak anomalies in excess of +3.5 mgal are associated with coarse grained dolerite and granophyre near 490500mE, 5176000mN and a feeder is implied. Other feeders are suggested nearby, the centre south of Moss Glen is concealed by a thin cover of Triassic rocks.

Other dolerite feeders are located at 492200mE, 5185000mN, 493000mE, 5188000mN and probably 489000mE, 5182600mN. The feature at 490400mE, 5187250mN on the eastern flank of Lune Sugarloaf may represent either a dolerite or basalt source although the intrusion of dolerite in Lower Permian rocks west of the fault suggests a dolerite feeder adjacent to the fault zone. Definite basalt sources were identified by the magnetic survey (see page 7) but these are narrow (ca.20-25m) dykes.

Dolerite from the feeder (? see page 17, section 1) at the head of Coal Pit Bight underlies the outcropping coal measures along the valley of the D'Entrecasteaux River. Dolerite forms a major portion of the section near Sullivan Point and on the western side of Southport Lagoon.

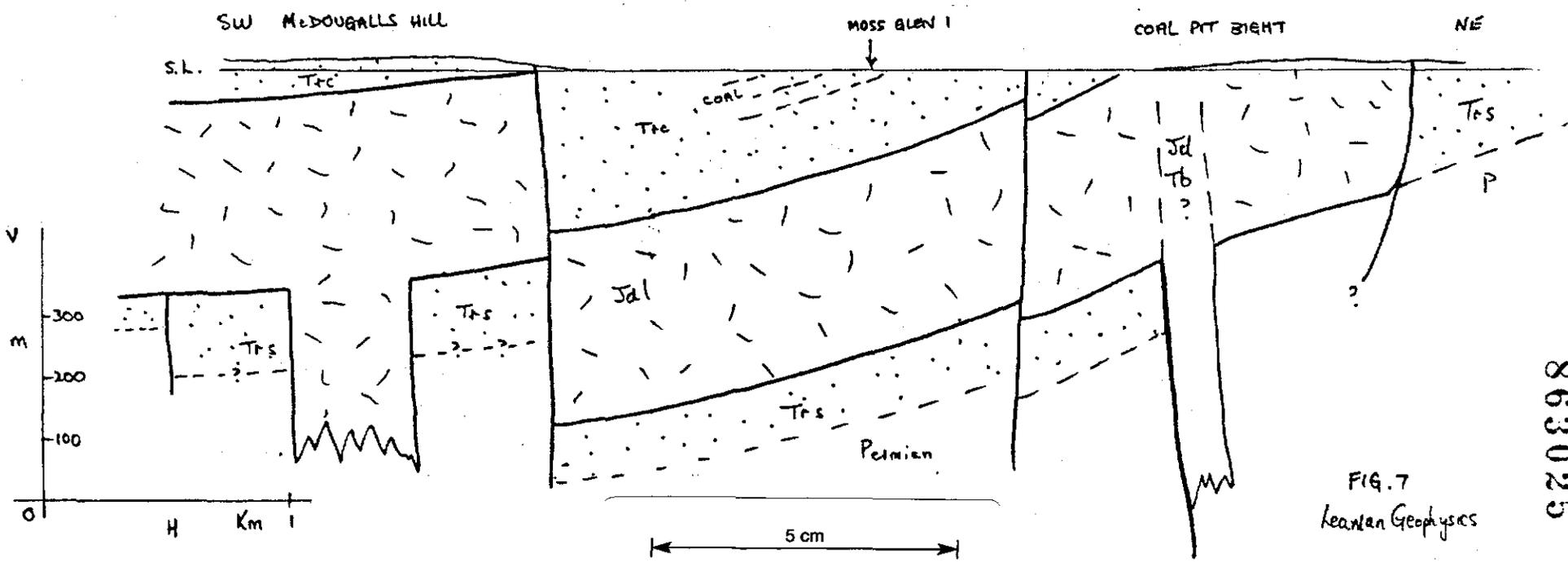
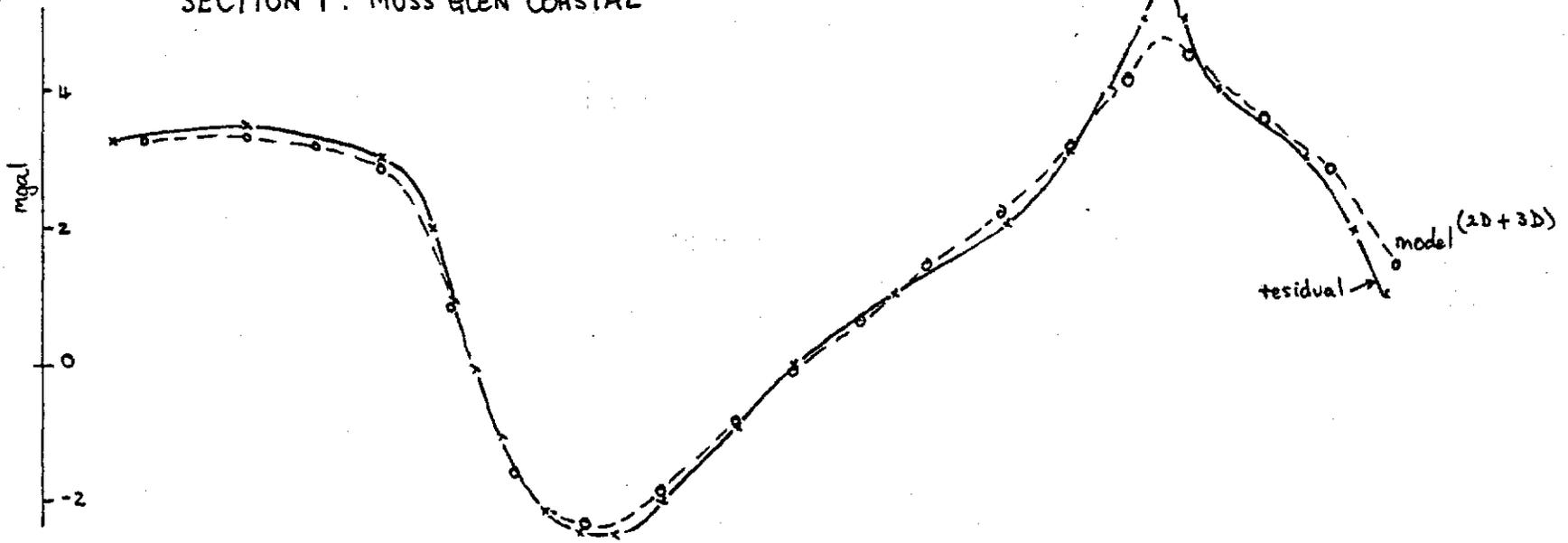
Regional dips are to the west and given a situation in which faulting is systematic - the Lune River Fault and any parallel ghost faulting may be the western side of a graben structure - and that dolerite intrusion has largely followed a hydrostatic level, it could be expected that the thickest succession or at least thickest cover on dolerite would occur adjacent to the Lune River Fault. In fact, the larger negative anomalies are to be found over the blocks adjacent to the fault although cross faulting has slightly complicated the structure. Since the bulk of the known coals also occur in parts of this block the association of negative anomalies suggest a significant volume of coal-bearing rocks. Areas with anomaly values more negative than -2mgal are clearly prime target zones. Unfortunately, few blocks appear to have escaped faulting and none may be free of dolerite. It will be recalled that the large negative values may reflect major sequences which could still contain dolerite. The anomaly gradients associated with the western blocks, however, suggest several hundred metres of sedimentary rock from the surface.

Some possible plug-like projections are suggested within the main prospective axis (490000mE, 5181000mN; 490200mE, 5183200mN; 488200mE, 5180200mN). †

Some quantitative interpretation has also been attempted in order to verify the scale of some structures inferred in the fore-going treatment. Extended treatment is not warranted unless particular propositions are available for test and the geological source data is not adequate to provide them at this stage. The processing has been designed to assess dolerite depth and intrusion form.

Most modelling has used limited strike two dimensional methods although three dimensional methods have been used to test anomaly closures.

SECTION 1: MOSS GLEN COASTAL



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Section 1: NE-SW: Moss Glen coastal.

Calculations along this profile have verified that the residual Bouguer values are indeed reflective only of Triassic rocks and dolerite for all practical purposes. No arbitrary matching shift was required at any stage. The final model is shown in Figure 7. Modelling has also confirmed the feeders inferred qualitatively. The small eastern feeder produces an abrupt anomaly suggesting a moderate contrast close to the surface. A second stage intrusion or basalt pipe is a possible solution. The dimensions shown are minima. 3D analysis suggests a pipe over 650m in diameter for the western feeder (450m, 2D). Similar dimensional underestimates have been noted for the thickness of the Moss Glen sedimentary wedge. The maximum thickness is likely to be in excess of 300m but the model suggests only about 270m. The model indicates a total Triassic content of about 400m which compares favourably with the qualitative estimate (388m, p15) but shows how the placement of the dolerite varies. The rock distribution suggests that the source of dolerite is the pipe system beneath McDougalls Hill and that the sheet transgresses upward to the east across the section. A major fault is confirmed near Bennetts Point.

Section 2: NW-SE: Moss Glen inland.

Modelling (Figure 8) of the large negative anomaly 2 km west of Moss Glen has demonstrated that up to 400m of Triassic rocks may overlie the local dolerite sheet. The steep western gradient to the anomaly is crucial to this interpretation. Two large faults are indicated in the section but the orientation and extension of the larger western structure is uncertain as it is cross cut by the fault revealed in Section 1. The extension of the sedimentary wedge, shown in Section 2, south west toward Catamaran River is uncertain due to lack of data. The uneven drilling results at holes Catamaran 3, 4 are consistent with the type of shelved, shallow and variable structure interpreted for the eastern side of the anomaly.

Section 3: ENE-WSW: Lune Sugarloaf south.

Section 3 transects the large area of consistent negative anomaly in the north of the area. The general character of the anomaly is asymmetric suggesting a similar wedge-shaped form. The irregularities in the centre of the section (Figure 9) may be related to basalt features or dolerite variations. The section can be modelled in two ways. If dolerite is excluded from the section the wedge of Triassic rocks required cannot exceed 100m thickness in the east and 250m thickness in the west. Some faulting is also required to avoid exposure of Permian rocks. In this case the small anomalies in the centre and west of the structure must be related to substantial local piles of basalt. Up to 80m of volcanics is required. This picture cannot be supported by the available geological information. Since the Lower Triassic rocks are at least 200m thick, they should be exposed near Donnelly's Creek. However, only coal measures (Upper Triassic) materials are exposed in this entire region and regional dips, with or without fault assistance, suggest a considerably thicker sequence. It may be concluded therefore that much more Triassic material is present and that it must include a dolerite sheet. The model shown in Figure 9 presents this option.

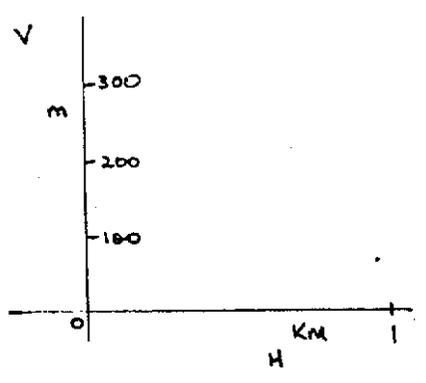
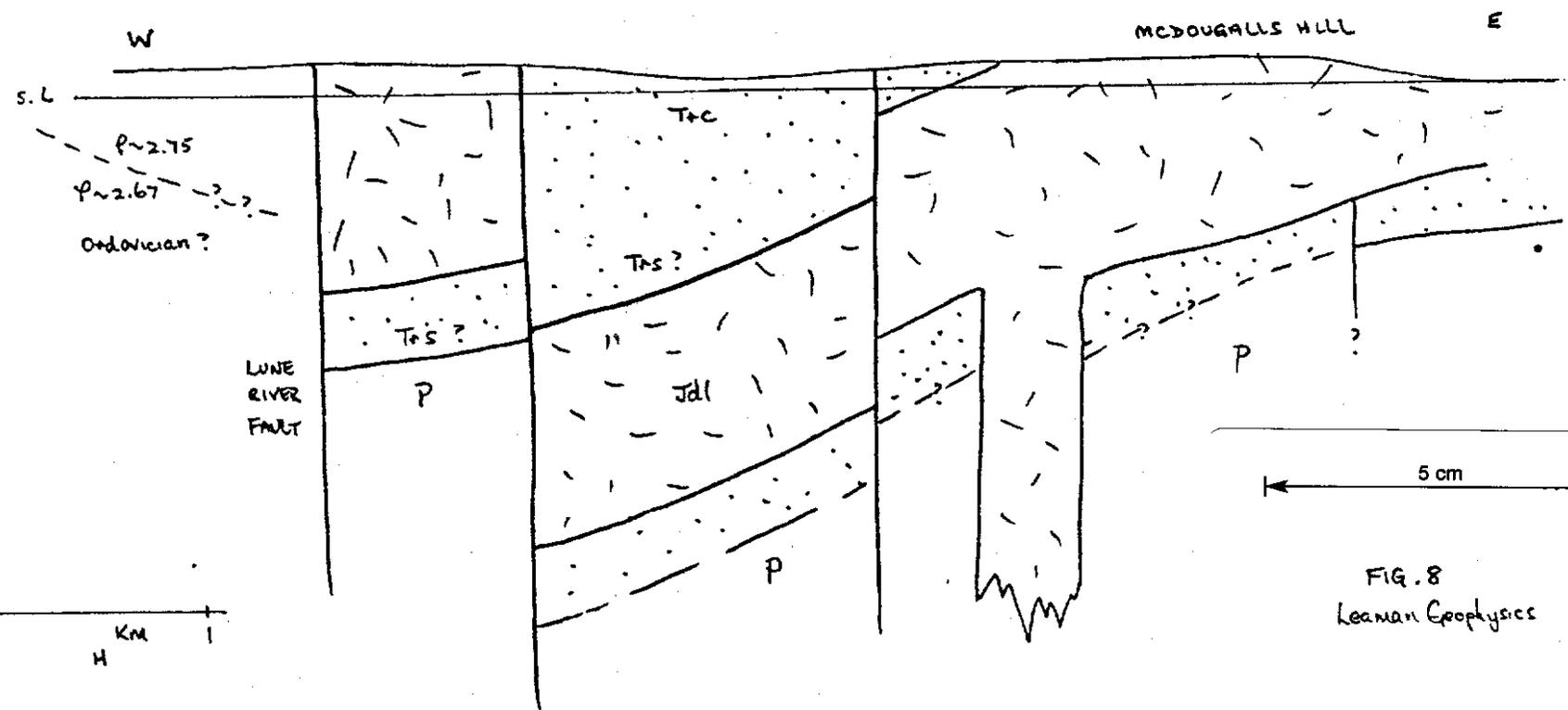


FIG. 8  
Leaman Geophysics

SECTION 3: LUNE SUGARLOAF SOUTH

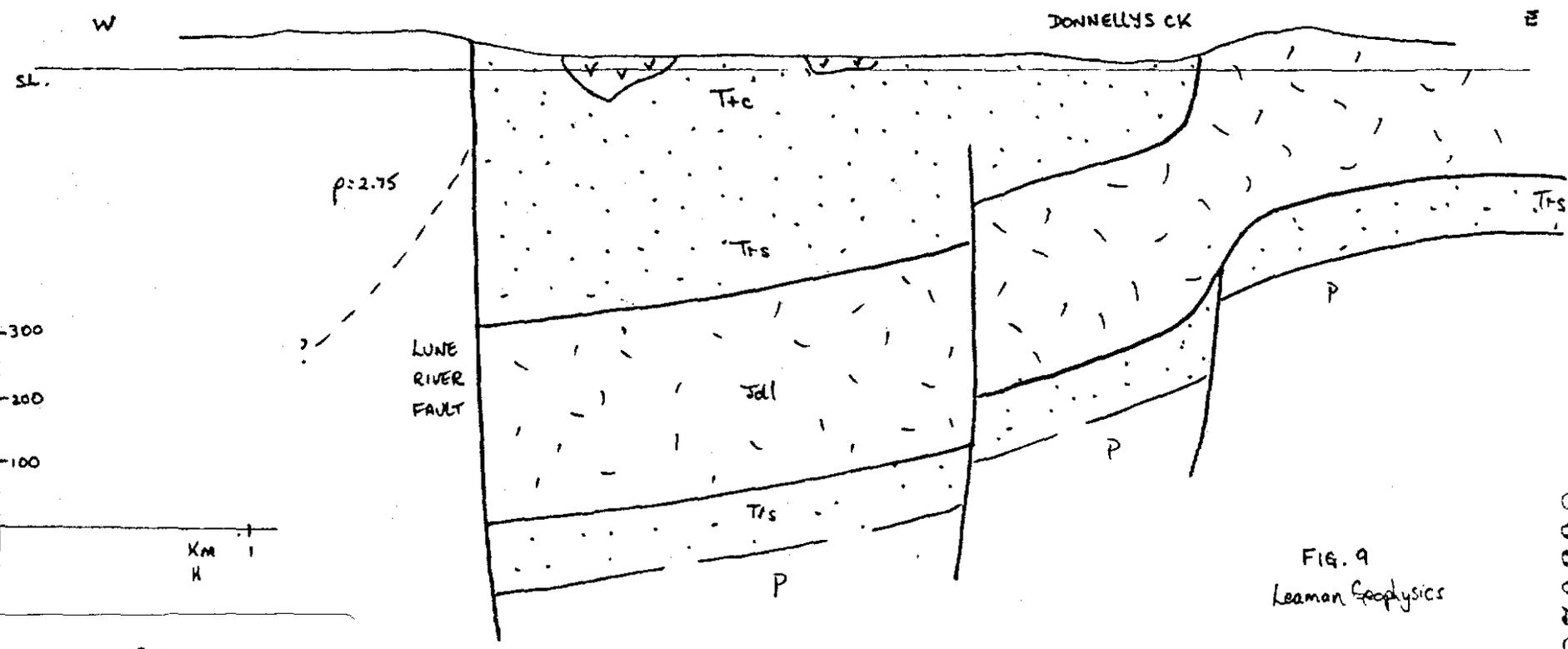
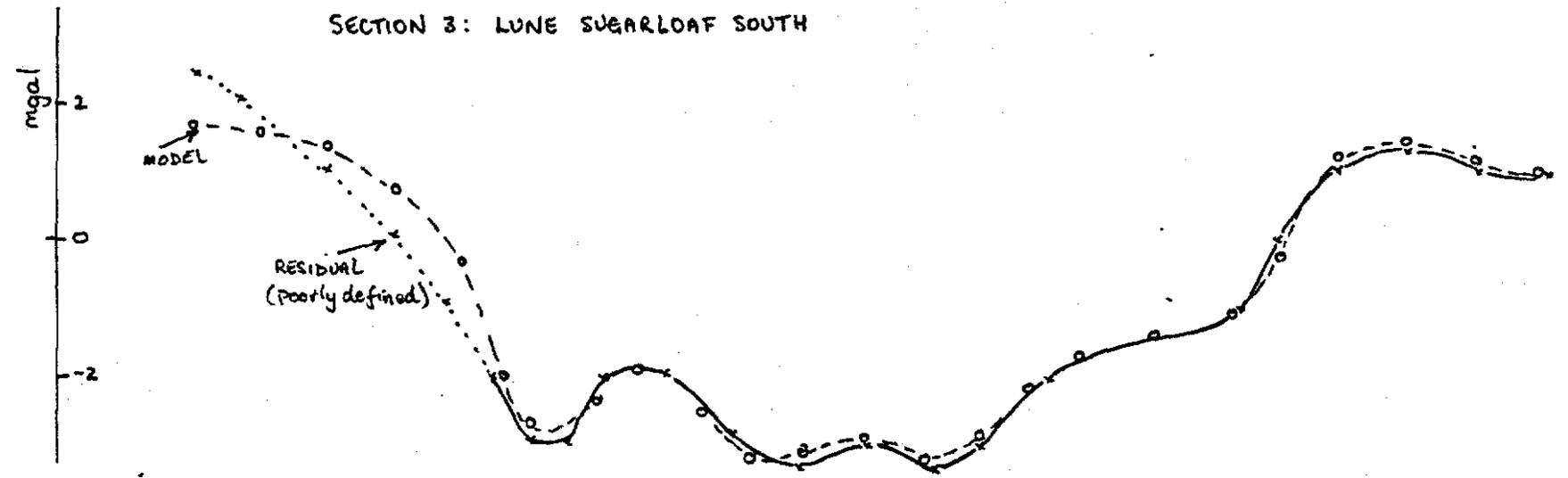


FIG. 9  
Leaman Geophysics

029

The structure west of the Lune River Fault is uncertain and control of the observed profile is quite poor in any event. The irregularities noted in the section have been largely ascribed to variations in Tertiary materials near surface. It is possible that valley systems filled with sediments and volcanics may be concealed beneath the patchy basalt and talus cover in this region. Such structures are common elsewhere in southern Tasmania.

The model also implies contemporaneous (eastern) and post intrusion (centre) faulting in the area. Dolerite exposed at the eastern end of the section shelves upward to the surface near Southport Lagoon, partly as a result of transgression and partly due to the regional dip. The exposed base of the intrusion is intrusive into Lower Triassic rocks.

Deficiencies in the rock property values used for the interpretation could lead to minor modification. The Triassic rocks are unlikely to be denser than  $2.40\text{t/m}^3$  overall and the dolerite is unlikely to be less than  $2.85\text{t/m}^3$ . The values actually used are close to the lower and upper limits respectively for the Triassic sequence and dolerite. Consequently the contrast used is a virtual maximum and the depths suggested are minima. Where talus overlies the section some reduction in thickness estimate is possible since a  $-0.16\text{ t/m}^3$  contrast is likely between talus and coal measures. However, as no reliable thickness data is extant this factor has not been included in the calculations.

The interpretation presumes relatively simple large scale intrusion. The possibility of smaller multiple intrusions cannot be excluded with present information. In Upper Triassic rocks small stringer intrusions and plugs should be anticipated above major injections. While these cannot be resolved by the methods used the interpretation does indicate the total amount of dolerite as a section proportion and the likely depth to a reasonably thick intrusion - which may not be the only one in the section. Thus a modelled 300 metres of dolerite may be made up by two 150 m. intrusions and perhaps a few stringers with the bulk of the mass at a depth equivalent or deeper than that modelled.

CONCLUSIONS:

Magnetic methods have been shown to provide a cheap, effective means of upgrading and checking geological base maps, especially where uncertainty exists about the exact nature of the materials. In this area the resolution of dolerite and dolerite talus is of paramount importance since it allows assessment of probable continuity of sedimentary sequences and aids structural integration of dolerite structures. It can fairly be said that dolerite dominates the geology of this area.

Several magnetics profiles have implied dolerite at relatively shallow depth beneath a cover of talus or coal measures. Although depth estimates based on these profiles are maxima they have been found concordant with gravity estimates. Even the 220m estimate at Moss Glen is consistent with the average depth estimate from the gravity data even though hole Moss Glen 1 proved only 138m. The gravity data suggest a wedge-shaped structure which is consistent with both drilling and magnetic results.

While a few magnetics profiles have implied dolerite at depth in some coal-bearing sedimentary sections, the gravity survey indicates that dolerite has intruded a low-middle horizon within the Triassic rocks and is present in every block of exposed coal measures. The intrusive sheet is of the order of 300m thick and was fed from up to six feeder sources within the area. The cover of coal-bearing rocks varies in thickness from zero, where the sheet roof is exposed, to about 400m.

As the dolerite appears to have been intruded within a consistent 100-150m band of the Triassic succession and Tertiary epeirogeny has produced a regional westerly dip and graben faulting a series of wedges have been produced in which the thickness of Triassic rock above dolerite varies systematically. The thickest wedges occur adjacent to the Lune River Fault although cross faulting has introduced some variation (e.g. to Moss Glen). A number of faults have also been suggested in the interpretation and it is likely that the average block size is about 2km x 2km.

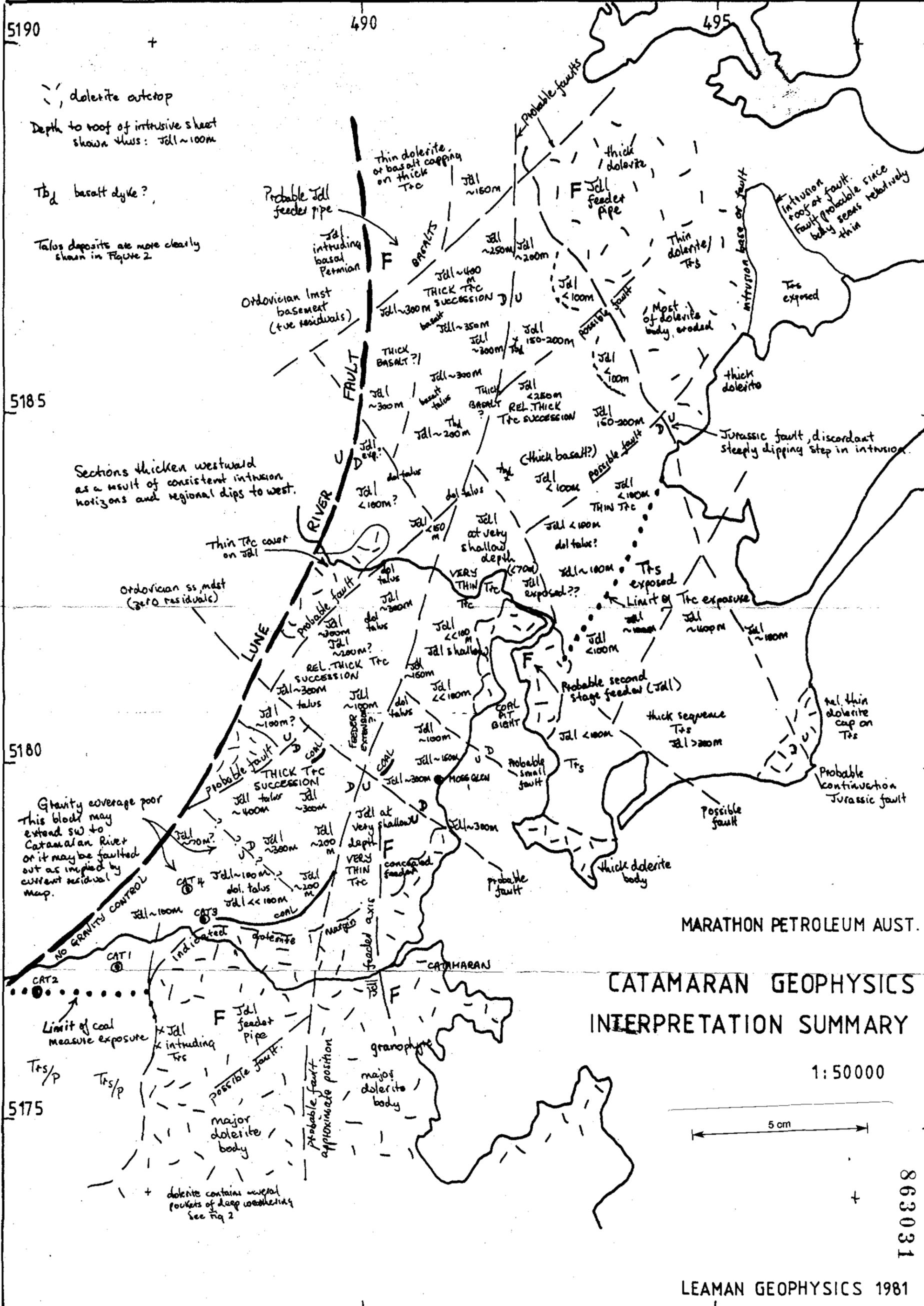
An overall summation of the interpretation is provided in Figure 10 which is internally consistent to the precision afforded by existing drilling and geological control. Points of ambiguity remain (areas of non descript residual anomaly) and any drilling programme should proceed from the major anomalies/ structures/ sections toward these features since the first requirement must be to establish presence of useful coal, then extent of coal. The overall resolution and accuracy of the present interpretation is estimated at 50m.

Submitted on behalf of  
Leaman Geophysics  
by

*D. Leaman*

Dr. D.E. Leaman, B.Sc. Ph.D.

031



☐ dolerite outcrop  
 Depth to roof of intrusive sheet shown thus: Jdl ~ 100m

Tb<sub>2</sub> basalt dyke?

Talus deposits are more clearly shown in Figure 2

5185

Sections thicken westward as a result of consistent intrusion horizons and regional dips to west.

5180

Gravity coverage poor. This block may extend SW to Catamaran River or it may be faulted out as implied by current residual map.

5175

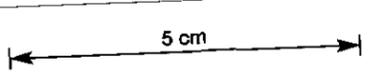
Limit of coal measure exposure

dolerite contains several pockets of deep weathering see fig 2

MARATHON PETROLEUM AUST.

CATAMARAN GEOPHYSICS INTERPRETATION SUMMARY

1:50000



LEAMAN GEOPHYSICS 1981

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APPENDIX

MPAL Data Reduction

The Marathon in-fill gravity survey data was originally reduced at Marathon's Brisbane Office. Problems arose at various stages of the processing and the in-fill data did not reduce to values compatible with existing surveys. Problems were also found in the plotting packages used and the residuals produced were incomplete.

Data comprising field note book, reduction input file and maps were transferred to Leaman Geophysics. The data were found to reduce consistently when tied to the Dover base station (980489.20) using a calibration of 0.0917(2) (from Hobart range). Several errors were found in the input file (elevations, integer truncation of terrain corrections etc.) but the source of an erratic base shift of more than 8 mgal (generally 8.6-8.7 mgal, 7.94-8.79 range) which upset the original reductions has not been found.

Consequently the entire in-fill survey was reduced from scratch and given plotting and scheduling problems the complete data file has been compiled and filtered by Leaman Geophysics. A scale of 1:50000 has been used for all maps in order to expedite the project and allow comparison with geological and magnetic data. The base map used (Marathon plan CIA3-T5/2) is adequate for these purposes but does contain minor scale distortions. The reductions are tabulated below.

MARATHON

33

(NEW) DATA

GRAVRED MPAL

BASE 980,489.20  
SCALE 0.09172  
DENSITY 2.67

NUMBER 500.00  
EASTING 140.8888  
NORTHING 43.5674  
HEIGHT 5.00  
CORRECTION 0.24  
G THEO 980,500.13  
G OBS 980,521.93  
BOUG ANOM 23.03

NUMBER 501.00  
EASTING 146.8893  
NORTHING 43.5665  
HEIGHT 0.50  
CORRECTION 0.24  
G THEO 980,500.05  
G OBS 980,522.83  
BOUG ANOM 23.12

NUMBER 502.00  
EASTING 146.8918  
NORTHING 43.5639  
HEIGHT 0.50  
CORRECTION 0.22  
G THEO 980,499.81  
G OBS 980,522.17  
BOUG ANOM 22.68

NUMBER 503.00  
EASTING 146.8946  
NORTHING 43.5645  
HEIGHT 0.50  
CORRECTION 0.22  
G THEO 980,499.87  
G OBS 980,522.35  
BOUG ANOM 22.79

NUMBER 504.00  
EASTING 146.8970  
NORTHING 43.5656  
HEIGHT 1.00  
CORRECTION 0.19  
G THEO 980,499.97  
G OBS 980,522.60  
BOUG ANOM 23.02

NUMBER 505.00  
EASTING 146.9001  
NORTHING 43.5668  
HEIGHT 0.00  
CORRECTION 0.17  
G THEO 980,500.07  
G OBS 980,523.15  
BOUG ANOM 23.25

NUMBER 506.00  
EASTING 146.9021  
NORTHING 43.5637  
HEIGHT 0.00  
CORRECTION 0.19  
G THEO 980,499.80  
G OBS 980,522.27  
BOUG ANOM 22.67

NUMBER 507.00  
EASTING 146.9020  
NORTHING 43.5619  
HEIGHT 0.50  
CORRECTION 0.19  
G THEO 980,499.63  
G OBS 980,522.12  
BOUG ANOM 22.77

NUMBER 508.00  
EASTING 146.8996  
NORTHING 43.5619  
HEIGHT 0.00  
CORRECTION 0.19  
G THEO 980,499.63  
G OBS 980,521.90  
BOUG ANOM 22.46

NUMBER 509.00  
EASTING 146.8970  
NORTHING 43.5612  
HEIGHT 2.50  
CORRECTION 0.17  
G THEO 980,499.57  
G OBS 980,521.28  
BOUG ANOM 22.37

NUMBER 510.00  
EASTING 146.8944  
NORTHING 43.5606  
HEIGHT 0.50  
CORRECTION 0.17  
G THEO 980,499.52  
G OBS 980,521.68  
BOUG ANOM 22.43

NUMBER 511.00  
EASTING 146.8914  
NORTHING 43.5604  
HEIGHT 1.00  
CORRECTION 0.18  
G THEO 980,499.50  
G OBS 980,522.33  
BOUG ANOM 23.21

NUMBER 512.00  
EASTING 146.8903  
NORTHING 43.5584  
HEIGHT 1.00  
CORRECTION 0.18  
G THEO 980,499.31  
G OBS 980,521.27  
BOUG ANOM 22.34

NUMBER 513.00  
EASTING 146.8923  
NORTHING 43.5086  
HEIGHT 23.00  
CORRECTION 0.54  
G THEO 980,494.83  
G OBS 980,501.70  
BOUG ANOM 11.94

NUMBER 514.00  
EASTING 146.8961  
NORTHING 43.5064  
HEIGHT 32.00  
CORRECTION 0.63  
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G OBS 980,498.94  
BOUG ANOM 11.23

NUMBER 515.00  
EASTING 146.8988  
NORTHING 43.5065  
HEIGHT 31.00  
CORRECTION 0.60  
G THEO 980,494.64  
G OBS 980,500.04  
BOUG ANOM 12.10

NUMBER 516.00  
EASTING 146.9018  
NORTHING 43.5065  
HEIGHT 25.00  
CORRECTION 0.60  
G THEO 980,494.64  
G OBS 980,501.35  
BOUG ANOM 12.23

NUMBER 517.00  
EASTING 146.9050  
NORTHING 43.5065  
HEIGHT 22.00  
CORRECTION 0.50  
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G OBS 980,501.66  
BOUG ANOM 11.85

NUMBER 518.00  
EASTING 146.9001  
NORTHING 43.5066  
HEIGHT 23.00  
CORRECTION 0.41  
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G OBS 980,501.02  
BOUG ANOM 11.31

NUMBER 519.00  
EASTING 146.9112  
NORTHING 43.5065  
HEIGHT 20.00  
CORRECTION 0.35  
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G OBS 980,502.15  
BOUG ANOM 11.80

NUMBER 520.00  
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NORTHING 43.5169  
HEIGHT 12.00  
CORRECTION 0.27  
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G OBS 980,506.94  
BOUG ANOM 13.99

NUMBER 521.00  
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NORTHING 43.5155  
HEIGHT 15.00  
CORRECTION 0.28  
G THEO 980,495.45  
G OBS 980,505.53  
BOUG ANOM 13.30

NUMBER 522.00  
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NORTHING 43.5088  
HEIGHT 24.00  
CORRECTION 0.62  
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G OBS 980,502.00  
BOUG ANOM 12.49

NUMBER 523.00  
EASTING 146.8680  
NORTHING 43.5089  
HEIGHT 20.00  
CORRECTION 0.62  
G THEO 980,494.85  
G OBS 980,500.62  
BOUG ANOM 11.89

NUMBER 524.00  
EASTING 146.8651  
NORTHING 43.5088  
HEIGHT 28.00  
CORRECTION 0.61  
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G OBS 980,501.03  
BOUG ANOM 12.31

NUMBER 525.00  
EASTING 146.8618  
NORTHING 43.5088  
HEIGHT 30.00  
CORRECTION 0.61  
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G OBS 980,500.51  
BOUG ANOM 12.17

NUMBER 526.00  
EASTING 146.8589  
NORTHING 43.5086  
HEIGHT 32.00  
CORRECTION 0.61  
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G OBS 980,499.02  
BOUG ANOM 11.89

NUMBER 527.00  
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NORTHING 43.5650  
HEIGHT 17.00  
CORRECTION 0.24  
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G OBS 980,517.72  
BOUG ANOM 21.39

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NORTHING 43.5634  
HEIGHT 16.00  
CORRECTION 0.27  
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G OBS 980,517.99  
BOUG ANOM 21.64

NUMBER 529.00  
EASTING 146.8565  
NORTHING 43.5616  
HEIGHT 17.00  
CORRECTION 0.33  
G THEO 980,499.60  
G OBS 980,517.03  
BOUG ANOM 21.10

NUMBER 530.00  
EASTING 146.8546  
NORTHING 43.5597  
HEIGHT 10.00  
CORRECTION 0.42  
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G OBS 980,517.37  
BOUG ANOM 20.32

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EASTING 146.8532  
NORTHING 43.5586  
HEIGHT 19.00  
CORRECTION 0.51  
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G OBS 980,515.18  
BOUG ANOM 20.10

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NORTHING 43.5582  
HEIGHT 20.00  
CORRECTION 0.51  
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G OBS 980,514.62  
BOUG ANOM 19.77

NUMBER 533.00  
EASTING 146.8718  
NORTHING 43.5417  
HEIGHT 29.00  
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G OBS 980,509.22  
BOUG ANOM 17.61

NUMBER 534.00  
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NORTHING 43.5418  
HEIGHT 23.00  
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BOUG ANOM 19.10

NUMBER 535.00  
EASTING 146.8777  
NORTHING 43.5418  
HEIGHT 27.00  
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G OBS 980,512.67  
BOUG ANOM 20.56

NUMBER 536.00  
EASTING 146.8809  
NORTHING 43.5417  
HEIGHT 23.00  
CORRECTION 0.34  
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G OBS 980,513.64  
BOUG ANOM 20.69

NUMBER 537.00  
EASTING 146.8839  
NORTHING 43.5417  
HEIGHT 18.00  
CORRECTION 0.30  
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G OBS 980,514.91  
BOUG ANOM 20.94

NUMBER 538.00  
EASTING 146.8873  
NORTHING 43.5417  
HEIGHT 16.00  
CORRECTION 0.27  
G THEO 980,497.01  
G OBS 980,515.30  
BOUG ANOM 20.91

NUMBER 539.00  
EASTING 146.8903  
NORTHING 43.5416  
HEIGHT 14.00  
CORRECTION 0.24  
G THEO 980,497.01  
G OBS 980,515.06  
BOUG ANOM 20.24

NUMBER 540.00  
EASTING 146.8483  
NORTHING 43.5618  
HEIGHT 35.00  
CORRECTION 0.45  
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G OBS 980,514.28  
BOUG ANOM 21.98

NUMBER 541.00  
EASTING 146.8505  
NORTHING 43.5603  
HEIGHT 30.00  
CORRECTION 0.49  
G THEO 980,499.49  
G OBS 980,512.51  
BOUG ANOM 20.98

NUMBER 542.00  
EASTING 146.8525  
NORTHING 43.5589  
HEIGHT 24.00  
CORRECTION 0.49  
G THEO 980,499.36  
G OBS 980,514.55  
BOUG ANOM 20.40

NUMBER 543.00  
EASTING 146.8550  
NORTHING 43.5572  
HEIGHT 15.00  
CORRECTION 0.52  
G THEO 980,499.21  
G OBS 980,515.54  
BOUG ANOM 19.80

NUMBER 544.00  
EASTING 146.8573  
NORTHING 43.5558  
HEIGHT 16.00  
CORRECTION 0.50  
G THEO 980,499.08  
G OBS 980,515.57  
BOUG ANOM 20.14

NUMBER 545.00  
EASTING 146.8593  
NORTHING 43.5545  
HEIGHT 32.00  
CORRECTION 0.44  
G THEO 980,498.97  
G OBS 980,512.07  
BOUG ANOM 19.83

NUMBER 546.00  
EASTING 146.8616  
NORTHING 43.5527  
HEIGHT 30.00  
CORRECTION 0.43  
G THEO 980,498.00  
G OBS 980,511.53  
BOUG ANOM 19.06

NUMBER 547.00  
EASTING 146.8821  
NORTHING 43.4923  
HEIGHT 87.00  
CORRECTION 0.73  
G THEO 980,493.36  
G OBS 980,482.02  
BOUG ANOM 6.50

NUMBER 548.00  
EASTING 146.8811  
NORTHING 43.4098  
HEIGHT 127.00  
CORRECTION 0.85  
G THEO 980,493.13  
G OBS 980,471.10  
BOUG ANOM 3.00

NUMBER 549.00  
EASTING 146.8806  
NORTHING 43.4075  
HEIGHT 177.00  
CORRECTION 1.23  
G THEO 980,492.93  
G OBS 980,460.67  
BOUG ANOM 3.78

NUMBER 550.00  
EASTING 146.8805  
NORTHING 43.4058  
HEIGHT 217.00  
CORRECTION 1.64  
G THEO 980,492.77  
G OBS 980,453.00  
BOUG ANOM 4.55

NUMBER 551.00  
EASTING 146.8796  
NORTHING 43.4040  
HEIGHT 233.00  
CORRECTION 1.91  
G THEO 980,492.61  
G OBS 980,451.06  
BOUG ANOM 6.20

NUMBER 552.00  
EASTING 146.8783  
NORTHING 43.4017  
HEIGHT 242.00  
CORRECTION 2.40  
G THEO 980,492.40  
G OBS 980,449.56  
BOUG ANOM 7.16

NUMBER 553.00  
EASTING 146.8765  
NORTHING 43.4006  
HEIGHT 286.00  
CORRECTION 3.08  
G THEO 980,492.30  
G OBS 980,440.19  
BOUG ANOM 7.23

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NUMBER 554.00  
EASTING 146.8752  
NORTHING 43.4797  
HEIGHT 309.00  
CORRECTION 3.36  
G THEO 980,492.23  
G OBS 980,435.17  
BOUG ANOM 7.08

NUMBER 555.00  
EASTING 146.8745  
NORTHING 43.4786  
HEIGHT 315.00  
CORRECTION 3.42  
G THEO 980,492.13  
G OBS 980,434.06  
BOUG ANOM 7.31

NUMBER 556.00  
EASTING 146.8734  
NORTHING 43.4766  
HEIGHT 350.00  
CORRECTION 3.53  
G THEO 980,491.94  
G OBS 980,426.04  
BOUG ANOM 6.48

NUMBER 557.00  
EASTING 146.8731  
NORTHING 43.4795  
HEIGHT 274.00  
CORRECTION 3.15  
G THEO 980,492.21  
G OBS 980,441.93  
BOUG ANOM 6.77

NUMBER 558.00  
EASTING 146.8701  
NORTHING 43.4794  
HEIGHT 226.00  
CORRECTION 2.72  
G THEO 980,492.20  
G OBS 980,452.51  
BOUG ANOM 7.49

NUMBER 559.00  
EASTING 146.8792  
NORTHING 43.4798  
HEIGHT 245.00  
CORRECTION 1.38  
G THEO 980,492.23  
G OBS 980,447.33  
BOUG ANOM 4.67

NUMBER 560.00  
EASTING 146.8823  
NORTHING 43.4798  
HEIGHT 179.00  
CORRECTION 1.25  
G THEO 980,492.23  
G OBS 980,459.02  
BOUG ANOM 3.25

NUMBER 561.00  
EASTING 146.8855  
NORTHING 43.4799  
HEIGHT 114.00  
CORRECTION 1.17  
G THEO 980,492.24  
G OBS 980,472.98  
BOUG ANOM 4.34

NUMBER 562.00  
EASTING 146.8791  
NORTHING 43.4937  
HEIGHT 46.00  
CORRECTION 0.70  
G THEO 980,493.49  
G OBS 980,491.73  
BOUG ANOM 7.99

NUMBER 563.00  
EASTING 146.8768  
NORTHING 43.4927  
HEIGHT 44.00  
CORRECTION 0.70  
G THEO 980,493.39  
G OBS 980,492.62  
BOUG ANOM 8.59

NUMBER 564.00  
EASTING 146.8741  
NORTHING 43.4932  
HEIGHT 27.00  
CORRECTION 0.71  
G THEO 980,493.44  
G OBS 980,497.02  
BOUG ANOM 9.00

NUMBER 565.00  
EASTING 146.8714  
NORTHING 43.4924  
HEIGHT 27.00  
CORRECTION 0.78  
G THEO 980,493.37  
G OBS 980,496.94  
BOUG ANOM 9.66

NUMBER 566.00  
EASTING 146.8692  
NORTHING 43.4915  
HEIGHT 29.00  
CORRECTION 0.79  
G THEO 980,493.29  
G OBS 980,496.06  
BOUG ANOM 9.27

NUMBER 567.00  
EASTING 146.8665  
NORTHING 43.4907  
HEIGHT 32.00  
CORRECTION 0.82  
G THEO 980,493.22  
G OBS 980,495.10  
BOUG ANOM 9.00

NUMBER 568.00  
EASTING 146.8635  
NORTHING 43.4897  
HEIGHT 30.00  
CORRECTION 0.85  
G THEO 980,493.13  
G OBS 980,493.86  
BOUG ANOM 7.48

NUMBER 569.00  
EASTING 146.9245  
NORTHING 43.5465  
HEIGHT 3.00  
CORRECTION 0.10  
G THEO 980,498.25  
G OBS 980,519.21  
BOUG ANOM 21.65

NUMBER 570.00  
EASTING 146.9157  
NORTHING 43.5466  
HEIGHT 0.00  
CORRECTION 0.15  
G THEO 980,498.25  
G OBS 980,520.11  
BOUG ANOM 22.01

NUMBER 571.00  
EASTING 146.9195  
NORTHING 43.5432  
HEIGHT 0.00  
CORRECTION 0.13  
G THEO 980,497.95  
G OBS 980,517.68  
BOUG ANOM 19.86

NUMBER 572.00  
EASTING 146.9255  
NORTHING 43.5345  
HEIGHT 4.00  
CORRECTION 0.17  
G THEO 980,497.17  
G OBS 980,514.61  
BOUG ANOM 18.40

NUMBER 573.00  
EASTING 146.9331  
NORTHING 43.5348  
HEIGHT 0.00  
CORRECTION 0.19  
G THEO 980,497.19  
G OBS 980,516.14  
BOUG ANOM 19.14

NUMBER 574.00  
EASTING 146.9386  
NORTHING 43.5339  
HEIGHT 0.00  
CORRECTION 0.19  
G THEO 980,497.11  
G OBS 980,516.58  
BOUG ANOM 19.66

NUMBER 575.00  
EASTING 146.9436  
NORTHING 43.5341  
HEIGHT 0.00  
CORRECTION 0.24  
G THEO 980,497.13  
G OBS 980,517.39  
BOUG ANOM 20.51

NUMBER 576.00  
EASTING 146.9511  
NORTHING 43.5345  
HEIGHT 3.00  
CORRECTION 0.16  
G THEO 980,497.16  
G OBS 980,516.34  
BOUG ANOM 19.93

NUMBER 577.00  
EASTING 146.9429  
NORTHING 43.5311  
HEIGHT 9.00  
CORRECTION 0.16  
G THEO 980,496.86  
G OBS 980,514.25  
BOUG ANOM 19.32

NUMBER 578.00  
EASTING 146.9372  
NORTHING 43.5305  
HEIGHT 5.00  
CORRECTION 0.20  
G THEO 980,496.80  
G OBS 980,514.84  
BOUG ANOM 19.23

NUMBER 579.00  
EASTING 146.9325  
NORTHING 43.5316  
HEIGHT 40.00  
CORRECTION 0.20  
G THEO 980,496.90  
G OBS 980,503.99  
BOUG ANOM 15.17

NUMBER 580.00  
EASTING 146.9257  
NORTHING 43.5327  
HEIGHT 0.00  
CORRECTION 0.23  
G THEO 980,497.00  
G OBS 980,515.19  
BOUG ANOM 18.43

NUMBER 581.00  
EASTING 146.9197  
NORTHING 43.5336  
HEIGHT 0.00  
CORRECTION 0.20  
G THEO 980,497.00  
G OBS 980,515.23  
BOUG ANOM 18.35

NUMBER 582.00  
EASTING 146.9191  
NORTHING 43.5361  
HEIGHT 0.00  
CORRECTION 0.17  
G THEO 980,497.31  
G OBS 980,515.60  
BOUG ANOM 18.46

NUMBER 583.00  
EASTING 146.9189  
NORTHING 43.5392  
HEIGHT 1.00  
CORRECTION 0.16  
G THEO 980,497.59  
G OBS 980,516.21  
BOUG ANOM 18.98

NUMBER 584.00  
EASTING 146.9124  
NORTHING 43.5448  
HEIGHT 0.00  
CORRECTION 0.17  
G THEO 980,498.09  
G OBS 980,518.84  
BOUG ANOM 20.92

NUMBER 585.00  
EASTING 146.9023  
NORTHING 43.5403  
HEIGHT 0.00  
CORRECTION 0.23  
G THEO 980,497.69  
G OBS 980,515.83  
BOUG ANOM 18.37

NUMBER 586.00  
EASTING 146.9098  
NORTHING 43.5321  
HEIGHT 0.00  
CORRECTION 0.29  
G THEO 980,496.95  
G OBS 980,514.89  
BOUG ANOM 18.24

NUMBER 587.00  
EASTING 146.9066  
NORTHING 43.5290  
HEIGHT 0.00  
CORRECTION 0.29  
G THEO 980,496.67  
G OBS 980,513.76  
BOUG ANOM 17.38

NUMBER 588.00  
EASTING 146.9157  
NORTHING 43.5300  
HEIGHT 21.00  
CORRECTION 0.23  
G THEO 980,496.76  
G OBS 980,510.99  
BOUG ANOM 18.60

NUMBER 589.00  
EASTING 146.9541  
NORTHING 43.5117  
HEIGHT 1.00  
CORRECTION 0.08  
G THEO 980,495.11  
G OBS 980,512.37  
BOUG ANOM 17.53

NUMBER 590.00  
EASTING 146.9640  
NORTHING 43.5038  
HEIGHT 1.00  
CORRECTION 0.09  
G THEO 980,494.40  
G OBS 980,512.12  
BOUG ANOM 18.01

NUMBER 591.00  
EASTING 146.9602  
NORTHING 43.5030  
HEIGHT 0.00  
CORRECTION 0.10  
G THEO 980,494.32  
G OBS 980,511.94  
BOUG ANOM 17.72

NUMBER 592.00  
EASTING 146.9642  
NORTHING 43.4981  
HEIGHT 0.00  
CORRECTION 0.09  
G THEO 980,493.88  
G OBS 980,511.61  
BOUG ANOM 17.82

NUMBER 593.00  
EASTING 146.9724  
NORTHING 43.4995  
HEIGHT 0.00  
CORRECTION 0.10  
G THEO 980,494.01  
G OBS 980,512.80  
BOUG ANOM 18.89

NUMBER 594.00  
EASTING 146.9764  
NORTHING 43.4942  
HEIGHT 0.00  
CORRECTION 0.10  
G THEO 980,493.53  
G OBS 980,512.16  
BOUG ANOM 18.73

NUMBER 595.00  
EASTING 146.9740  
NORTHING 43.4909  
HEIGHT 0.00  
CORRECTION 0.12  
G THEO 980,493.24  
G OBS 980,512.17  
BOUG ANOM 19.05

NUMBER 596.00  
EASTING 146.9726  
NORTHING 43.4855  
HEIGHT 0.00  
CORRECTION 0.15  
G THEO 980,492.75  
G OBS 980,510.37  
BOUG ANOM 17.77

NUMBER 597.00  
EASTING 146.9770  
NORTHING 43.4875  
HEIGHT 0.00  
CORRECTION 0.17  
G THEO 980,492.93  
G OBS 980,511.41  
BOUG ANOM 18.66

NUMBER 598.00  
EASTING 146.9810  
NORTHING 43.4868  
HEIGHT 15.00  
CORRECTION 0.17  
G THEO 980,493.04  
G OBS 980,500.14  
BOUG ANOM 18.22

NUMBER 599.00  
EASTING 146.9885  
NORTHING 43.4846  
HEIGHT 0.00  
CORRECTION 0.16  
G THEO 980,492.67  
G OBS 980,510.31  
BOUG ANOM 17.80

NUMBER 600.00  
EASTING 146.9832  
NORTHING 43.4841  
HEIGHT 28.00  
CORRECTION 0.20  
G THEO 980,492.62  
G OBS 980,504.14  
BOUG ANOM 17.23

NUMBER 601.00  
EASTING 146.9779  
NORTHING 43.4817  
HEIGHT 1.00  
CORRECTION 0.15  
G THEO 980,492.40  
G OBS 980,510.66  
BOUG ANOM 18.61

NUMBER 602.00  
EASTING 146.9811  
NORTHING 43.4788  
HEIGHT 0.00  
CORRECTION 0.13  
G THEO 980,492.14  
G OBS 980,509.97  
BOUG ANOM 17.96

NUMBER 603.00  
EASTING 146.9876  
NORTHING 43.4801  
HEIGHT 24.00  
CORRECTION 0.20  
G THEO 980,492.26  
G OBS 980,504.67  
BOUG ANOM 17.34

NUMBER 604.00  
EASTING 146.9934  
NORTHING 43.4822  
HEIGHT 0.00  
CORRECTION 0.15  
G THEO 980,492.45  
G OBS 980,510.35  
BOUG ANOM 18.05

NUMBER 605.00  
EASTING 146.9948  
NORTHING 43.4802  
HEIGHT 20.00  
CORRECTION 0.13  
G THEO 980,492.27  
G OBS 980,507.15  
BOUG ANOM 18.95

NUMBER 607.00  
EASTING 146.9968  
NORTHING 43.4771  
HEIGHT 0.00  
CORRECTION 0.09  
G THEO 980,491.99  
G OBS 980,505.89  
BOUG ANOM 13.99

NUMBER 606.00  
EASTING 146.9968  
NORTHING 43.4771  
HEIGHT 0.00  
CORRECTION 0.09  
G THEO 980,491.99  
G OBS 980,510.53  
BOUG ANOM 18.63

NUMBER 608.00  
EASTING 146.9944  
NORTHING 43.4733  
HEIGHT 0.00  
CORRECTION 0.09  
G THEO 980,491.64  
G OBS 980,508.14  
BOUG ANOM 18.16

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NUMBER 609.00  
EASTING 146.9885  
NORTHING 43.4744  
HEIGHT 8.00  
CORRECTION 0.10  
G THEO 980,491.74  
G OBS 980,507.09  
BOUG ANOM 17.03

NUMBER 610.00  
EASTING 146.9883  
NORTHING 43.4755  
HEIGHT 0.00  
CORRECTION 0.12  
G THEO 980,491.85  
G OBS 980,509.69  
BOUG ANOM 17.96

NUMBER 611.00  
EASTING 146.9765  
NORTHING 43.4719  
HEIGHT 0.00  
CORRECTION 0.15  
G THEO 980,491.52  
G OBS 980,509.18  
BOUG ANOM 17.80

NUMBER 612.00  
EASTING 146.9811  
NORTHING 43.4684  
HEIGHT 7.00  
CORRECTION 0.13  
G THEO 980,491.20  
G OBS 980,507.20  
BOUG ANOM 17.51

NUMBER 613.00  
EASTING 146.9933  
NORTHING 43.4690  
HEIGHT 3.00  
CORRECTION 0.10  
G THEO 980,491.26  
G OBS 980,509.05  
BOUG ANOM 18.48

NUMBER 614.00  
EASTING 146.9895  
NORTHING 43.4670  
HEIGHT 10.00  
CORRECTION 0.11  
G THEO 980,491.08  
G OBS 980,506.71  
BOUG ANOM 17.71

NUMBER 615.00  
EASTING 146.9814  
NORTHING 43.4702  
HEIGHT 11.00  
CORRECTION 0.13  
G THEO 980,491.37  
G OBS 980,507.25  
BOUG ANOM 18.17

NUMBER 616.00  
EASTING 146.9755  
NORTHING 43.4665  
HEIGHT 29.00  
CORRECTION 0.16  
G THEO 980,491.03  
G OBS 980,502.52  
BOUG ANOM 17.35

NUMBER 617.00  
EASTING 146.9683  
NORTHING 43.4684  
HEIGHT 25.00  
CORRECTION 0.19  
G THEO 980,491.20  
G OBS 980,502.34  
BOUG ANOM 16.25

NUMBER 618.00  
EASTING 146.9597  
NORTHING 43.4695  
HEIGHT 17.00  
CORRECTION 0.21  
G THEO 980,491.31  
G OBS 980,503.86  
BOUG ANOM 16.10

NUMBER 619.00  
EASTING 146.9599  
NORTHING 43.4752  
HEIGHT 11.00  
CORRECTION 0.17  
G THEO 980,491.02  
G OBS 980,506.50  
BOUG ANOM 17.01

NUMBER 620.00  
EASTING 146.9528  
NORTHING 43.4750  
HEIGHT 29.00  
CORRECTION 0.24  
G THEO 980,491.80  
G OBS 980,500.67  
BOUG ANOM 14.81

NUMBER 621.00  
EASTING 146.9525  
NORTHING 43.4705  
HEIGHT 6.00  
CORRECTION 0.23  
G THEO 980,491.40  
G OBS 980,504.76  
BOUG ANOM 14.77

NUMBER 622.00  
EASTING 146.9523  
NORTHING 43.4656  
HEIGHT 23.00  
CORRECTION 0.27  
G THEO 980,490.95  
G OBS 980,500.84  
BOUG ANOM 14.68

NUMBER 623.00  
EASTING 146.9605  
NORTHING 43.4645  
HEIGHT 42.00  
CORRECTION 0.20  
G THEO 980,490.85  
G OBS 980,497.49  
BOUG ANOM 15.10

NUMBER 624.00  
EASTING 146.9703  
NORTHING 43.4651  
HEIGHT 40.00  
CORRECTION 0.20  
G THEO 980,490.91  
G OBS 980,499.92  
BOUG ANOM 17.08

NUMBER 625.00  
EASTING 146.9774  
NORTHING 43.4621  
HEIGHT 23.00  
CORRECTION 0.13  
G THEO 980,490.64  
G OBS 980,503.87  
BOUG ANOM 17.88

NUMBER 626.00  
EASTING 146.9826  
NORTHING 43.4631  
HEIGHT 20.00  
CORRECTION 0.13  
G THEO 980,490.73  
G OBS 980,503.71  
BOUG ANOM 17.05

NUMBER 627.00  
EASTING 146.9782  
NORTHING 43.4573  
HEIGHT 11.00  
CORRECTION 0.08  
G THEO 980,490.21  
G OBS 980,505.61  
BOUG ANOM 17.65

NUMBER 628.00  
EASTING 146.9729  
NORTHING 43.4556  
HEIGHT 1.50  
CORRECTION 0.13  
G THEO 980,490.05  
G OBS 980,507.75  
BOUG ANOM 18.12

NUMBER 629.00  
EASTING 146.9735  
NORTHING 43.4610  
HEIGHT 12.00  
CORRECTION 0.16  
G THEO 980,490.54  
G OBS 980,503.83  
BOUG ANOM 15.81

NUMBER 630.00  
EASTING 146.9663  
NORTHING 43.4591  
HEIGHT 2.00  
CORRECTION 0.17  
G THEO 980,490.36  
G OBS 980,506.80  
BOUG ANOM 17.00

NUMBER 631.00  
EASTING 146.9655  
NORTHING 43.4562  
HEIGHT 0.00  
CORRECTION 0.15  
G THEO 980,490.11  
G OBS 980,507.24  
BOUG ANOM 17.29

NUMBER 632.00  
EASTING 146.8183  
NORTHING 43.5622  
HEIGHT 61.00  
CORRECTION 0.23  
G THEO 980,499.66  
G OBS 980,506.03  
BOUG ANOM 18.60

NUMBER 633.00  
EASTING 146.8147  
NORTHING 43.5668  
HEIGHT 73.00  
CORRECTION 0.23  
G THEO 980,500.07  
G OBS 980,503.67  
BOUG ANOM 18.19

NUMBER 634.00  
EASTING 146.8194  
NORTHING 43.5664  
HEIGHT 71.00  
CORRECTION 0.21  
G THEO 980,500.04  
G OBS 980,504.84  
BOUG ANOM 18.98

NUMBER 635.00  
EASTING 146.8242  
NORTHING 43.5639  
HEIGHT 61.00  
CORRECTION 0.24  
G THEO 980,499.81  
G OBS 980,505.92  
BOUG ANOM 18.35

NUMBER 636.00  
EASTING 146.8368  
NORTHING 43.5730  
HEIGHT 40.00  
CORRECTION 0.35  
G THEO 980,500.63  
G OBS 980,514.41  
BOUG ANOM 22.00

NUMBER 637.00  
EASTING 146.8621  
NORTHING 43.5829  
HEIGHT 23.00  
CORRECTION 0.64  
G THEO 980,494.32  
G OBS 980,499.00  
BOUG ANOM 9.85

NUMBER 638.00  
EASTING 146.8532  
NORTHING 43.5899  
HEIGHT 29.00  
CORRECTION 0.62  
G THEO 980,494.95  
G OBS 980,498.32  
BOUG ANOM 9.69

NUMBER 639.00  
EASTING 146.8475  
NORTHING 43.5121  
HEIGHT 34.00  
CORRECTION 0.74  
G THEO 980,495.15  
G OBS 980,497.48  
BOUG ANOM 9.76

NUMBER 640.00  
EASTING 146.8426  
NORTHING 43.5147  
HEIGHT 29.00  
CORRECTION 0.77  
G THEO 980,495.38  
G OBS 980,499.58  
BOUG ANOM 10.68

NUMBER 641.00  
EASTING 146.8305  
NORTHING 43.5231  
HEIGHT 87.00  
CORRECTION 2.01  
G THEO 980,496.14  
G OBS 980,488.93  
BOUG ANOM 11.92

NUMBER 642.00  
EASTING 146.8635  
NORTHING 43.4856  
HEIGHT 48.00  
CORRECTION 1.02  
G THEO 980,492.76  
G OBS 980,492.25  
BOUG ANOM 9.95

NUMBER 643.00  
EASTING 146.8975  
NORTHING 43.4859  
HEIGHT 52.00  
CORRECTION 0.57  
G THEO 980,492.79  
G OBS 980,488.40  
BOUG ANOM 6.41

NUMBER 644.00  
EASTING 146.8925  
NORTHING 43.4961  
HEIGHT 70.00  
CORRECTION 0.54  
G THEO 980,493.70  
G OBS 980,488.07  
BOUG ANOM 8.68

NUMBER 645.00  
EASTING 146.8985  
NORTHING 43.5010  
HEIGHT 70.00  
CORRECTION 0.46  
G THEO 980,494.15  
G OBS 980,490.90  
BOUG ANOM 10.98

NUMBER 646.00  
EASTING 146.9242  
NORTHING 43.5166  
HEIGHT 37.00  
CORRECTION 0.17  
G THEO 980,495.55  
G OBS 980,503.80  
BOUG ANOM 15.70

NUMBER 647.00  
EASTING 146.9320  
NORTHING 43.5121  
HEIGHT 16.00  
CORRECTION 0.16  
G THEO 980,495.14  
G OBS 980,506.63  
BOUG ANOM 14.79

NUMBER 648.00  
EASTING 146.9117  
NORTHING 43.5201  
HEIGHT 23.00  
CORRECTION 0.23  
G THEO 980,495.87  
G OBS 980,507.41  
BOUG ANOM 16.29

NUMBER 649.00  
EASTING 146.9003  
NORTHING 43.5236  
HEIGHT 0.00  
CORRECTION 0.27  
G THEO 980,496.18  
G OBS 980,512.62  
BOUG ANOM 16.71

NUMBER 650.00  
EASTING 146.8929  
NORTHING 43.5233  
HEIGHT 10.00  
CORRECTION 0.34  
G THEO 980,496.16  
G OBS 980,509.69  
BOUG ANOM 15.84

NUMBER 651.00  
EASTING 146.8860  
NORTHING 43.5218  
HEIGHT 16.00  
CORRECTION 0.43  
G THEO 980,496.02  
G OBS 980,505.98  
BOUG ANOM 13.55

NUMBER 652.00  
EASTING 146.8662  
NORTHING 43.5415  
HEIGHT 96.00  
CORRECTION 0.85  
G THEO 980,497.79  
G OBS 980,492.44  
BOUG ANOM 14.33

NUMBER 653.00  
EASTING 146.8627  
NORTHING 43.5410  
HEIGHT 143.00  
CORRECTION 0.92  
G THEO 980,497.75  
G OBS 980,482.30  
BOUG ANOM 13.60

NUMBER 654.00  
EASTING 146.8594  
NORTHING 43.5402  
HEIGHT 184.00  
CORRECTION 0.91  
G THEO 980,497.60  
G OBS 980,472.92  
BOUG ANOM 12.35

NUMBER 655.00  
EASTING 146.8569  
NORTHING 43.5380  
HEIGHT 208.00  
CORRECTION 0.99  
G THEO 980,497.55  
G OBS 980,467.50  
BOUG ANOM 11.93

NUMBER 656.00  
EASTING 146.8548  
NORTHING 43.5369  
HEIGHT 226.00  
CORRECTION 1.06  
G THEO 980,497.35  
G OBS 980,464.55  
BOUG ANOM 12.69

NUMBER 657.00  
EASTING 146.8537  
NORTHING 43.5351  
HEIGHT 199.00  
CORRECTION 1.05  
G THEO 980,497.22  
G OBS 980,470.25  
BOUG ANOM 13.22

NUMBER 658.00  
EASTING 146.8561  
NORTHING 43.5333  
HEIGHT 140.00  
CORRECTION 1.06  
G THEO 980,497.05  
G OBS 980,483.35  
BOUG ANOM 14.89

NUMBER 659.00  
EASTING 146.8588  
NORTHING 43.5316  
HEIGHT 125.00  
CORRECTION 1.07  
G THEO 980,496.90  
G OBS 980,485.33  
BOUG ANOM 14.09

NUMBER 660.00  
EASTING 146.9615  
NORTHING 43.5303  
HEIGHT 108.00  
CORRECTION 1.05  
G THEO 980,496.78  
G OBS 980,487.15  
BOUG ANOM 12.66

NUMBER 661.00  
EASTING 146.8644  
NORTHING 43.5287  
HEIGHT 122.00  
CORRECTION 0.99  
G THEO 980,496.64  
G OBS 980,483.11  
BOUG ANOM 11.46

NUMBER 662.00  
EASTING 146.8670  
NORTHING 43.5272  
HEIGHT 138.00  
CORRECTION 0.97  
G THEO 980,496.51  
G OBS 980,479.73  
BOUG ANOM 11.74

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NUMBER 653.00  
EASTING 146.8698  
NORTHING 43.5289  
HEIGHT 121.00  
CORRECTION 0.95  
G THEO 980,496.66  
G OBS 980,483.93  
BOUG ANOM 12.02

NUMBER 664.00  
EASTING 146.8717  
NORTHING 43.5304  
HEIGHT 86.00  
CORRECTION 0.73  
G THEO 980,496.80  
G OBS 980,491.85  
BOUG ANOM 12.70

NUMBER 665.00  
EASTING 146.8817  
NORTHING 43.5174  
HEIGHT 38.00  
CORRECTION 0.54  
G THEO 980,495.62  
G OBS 980,497.27  
BOUG ANOM 9.66

NUMBER 666.00  
EASTING 146.8785  
NORTHING 43.5171  
HEIGHT 75.00  
CORRECTION 0.61  
G THEO 980,495.60  
G OBS 980,491.43  
BOUG ANOM 11.19

NUMBER 667.00  
EASTING 146.8758  
NORTHING 43.5176  
HEIGHT 98.00  
CORRECTION 0.72  
G THEO 980,495.64  
G OBS 980,485.93  
BOUG ANOM 10.29

NUMBER 668.00  
EASTING 146.8733  
NORTHING 43.5189  
HEIGHT 116.00  
CORRECTION 0.73  
G THEO 980,495.76  
G OBS 980,482.75  
BOUG ANOM 10.54

NUMBER 669.00  
EASTING 146.8719  
NORTHING 43.5209  
HEIGHT 129.00  
CORRECTION 0.85  
G THEO 980,495.94  
G OBS 980,480.01  
BOUG ANOM 10.30

NUMBER 670.00  
EASTING 146.8706  
NORTHING 43.5229  
HEIGHT 107.00  
CORRECTION 0.86  
G THEO 980,496.12  
G OBS 980,485.13  
BOUG ANOM 10.91

NUMBER 671.00  
EASTING 146.8694  
NORTHING 43.5248  
HEIGHT 102.00  
CORRECTION 0.98  
G THEO 980,496.29  
G OBS 980,486.56  
BOUG ANOM 11.31

NUMBER 672.00  
EASTING 146.8678  
NORTHING 43.5267  
HEIGHT 140.00  
CORRECTION 0.97  
G THEO 980,496.46  
G OBS 980,478.88  
BOUG ANOM 10.93

NUMBER 673.00  
EASTING 146.8609  
NORTHING 43.5337  
HEIGHT 112.00  
CORRECTION 1.17  
G THEO 980,497.09  
G OBS 980,488.17  
BOUG ANOM 14.28

NUMBER 674.00  
EASTING 146.8579  
NORTHING 43.5335  
HEIGHT 138.00  
CORRECTION 1.22  
G THEO 980,497.07  
G OBS 980,483.17  
BOUG ANOM 14.47

NUMBER 675.00  
EASTING 146.8552  
NORTHING 43.5333  
HEIGHT 158.00  
CORRECTION 1.11  
G THEO 980,497.05  
G OBS 980,478.95  
BOUG ANOM 14.08

NUMBER 676.00  
EASTING 146.8517  
NORTHING 43.5333  
HEIGHT 137.00  
CORRECTION 1.25  
G THEO 980,497.05  
G OBS 980,483.49  
BOUG ANOM 14.63

NUMBER 677.00  
EASTING 146.8487  
NORTHING 43.5331  
HEIGHT 176.00  
CORRECTION 1.30  
G THEO 980,497.04  
G OBS 980,474.21  
BOUG ANOM 13.10

NUMBER 678.00  
EASTING 146.8455  
NORTHING 43.5332  
HEIGHT 143.00  
CORRECTION 1.33  
G THEO 980,497.04  
G OBS 980,481.89  
BOUG ANOM 14.31

NUMBER 679.00  
EASTING 146.8423  
NORTHING 43.5334  
HEIGHT 85.00  
CORRECTION 1.25  
G THEO 980,497.06  
G OBS 980,493.45  
BOUG ANOM 14.36

NUMBER 680.00  
EASTING 146.8437  
NORTHING 43.5619  
HEIGHT 82.00  
CORRECTION 0.54  
G THEO 980,499.64  
G OBS 980,502.11  
BOUG ANOM 19.14

NUMBER 681.00  
EASTING 146.8412  
NORTHING 43.5603  
HEIGHT 38.00  
CORRECTION 0.42  
G THEO 980,499.49  
G OBS 980,511.01  
BOUG ANOM 19.41

NUMBER 682.00  
EASTING 146.8395  
NORTHING 43.5591  
HEIGHT 37.00  
CORRECTION 0.43  
G THEO 980,499.38  
G OBS 980,509.93  
BOUG ANOM 18.25

NUMBER 683.00  
EASTING 146.8371  
NORTHING 43.5576  
HEIGHT 31.00  
CORRECTION 0.43  
G THEO 980,499.25  
G OBS 980,509.96  
BOUG ANOM 17.24

NUMBER 684.00  
EASTING 146.8350  
NORTHING 43.5561  
HEIGHT 29.00  
CORRECTION 0.34  
G THEO 980,499.11  
G OBS 980,509.86  
BOUG ANOM 16.80

NUMBER 685.00  
EASTING 146.8336  
NORTHING 43.5552  
HEIGHT 25.00  
CORRECTION 0.34  
G THEO 980,499.03  
G OBS 980,510.47  
BOUG ANOM 16.70

NUMBER 686.00  
EASTING 146.8775  
NORTHING 43.5017  
HEIGHT 86.00  
CORRECTION 0.72  
G THEO 980,494.21  
G OBS 980,486.44  
BOUG ANOM 9.87

NUMBER 687.00  
EASTING 146.8800  
NORTHING 43.5013  
HEIGHT 140.00  
CORRECTION 0.98  
G THEO 980,494.17  
G OBS 980,474.13  
BOUG ANOM 8.47

NUMBER 689.00  
EASTING 146.8833  
NORTHING 43.5013  
HEIGHT 160.00  
CORRECTION 0.98  
G THEO 980,494.17  
G OBS 980,469.43  
BOUG ANOM 7.70

NUMBER 690.00  
EASTING 146.8861  
NORTHING 43.5013  
HEIGHT 141.00  
CORRECTION 0.98  
G THEO 980,494.17  
G OBS 980,473.23  
BOUG ANOM 7.78

NUMBER 691.00  
EASTING 146.8893  
NORTHING 43.5017  
HEIGHT 124.00  
CORRECTION 0.82  
G THEO 980,494.21  
G OBS 980,477.23  
BOUG ANOM 8.23

NUMBER 692.00  
EASTING 146.8927  
NORTHING 43.5024  
HEIGHT 109.00  
CORRECTION 0.68  
G THEO 980,494.27  
G OBS 980,481.14  
BOUG ANOM 8.99

NUMBER 693.00  
EASTING 146.8929  
NORTHING 43.5048  
HEIGHT 57.00  
CORRECTION 0.72  
G THEO 980,494.49  
G OBS 980,492.67  
BOUG ANOM 10.11

NUMBER 694.00  
EASTING 146.8923  
NORTHING 43.5101  
HEIGHT 8.00  
CORRECTION 0.43  
G THEO 980,494.96  
G OBS 980,504.17  
BOUG ANOM 11.21

NUMBER 695.00  
EASTING 146.8960  
NORTHING 43.5824  
HEIGHT 1.00  
CORRECTION 0.27  
G THEO 980,501.48  
G OBS 980,525.15  
BOUG ANOM 24.13

NUMBER 696.00  
EASTING 146.8989  
NORTHING 43.5800  
HEIGHT 3.00  
CORRECTION 0.25  
G THEO 980,501.26  
G OBS 980,525.83  
BOUG ANOM 25.41

NUMBER 697.00  
EASTING 146.9003  
NORTHING 43.5787  
HEIGHT 1.00  
CORRECTION 0.24  
G THEO 980,501.15  
G OBS 980,525.48  
BOUG ANOM 24.76

NUMBER 698.00  
EASTING 146.9051  
NORTHING 43.5787  
HEIGHT 0.00  
CORRECTION 0.24  
G THEO 980,501.15  
G OBS 980,525.37  
BOUG ANOM 24.46

NUMBER 699.00  
EASTING 146.9076  
NORTHING 43.5749  
HEIGHT 3.00  
CORRECTION 0.19  
G THEO 980,500.81  
G OBS 980,525.09  
BOUG ANOM 25.06

NUMBER 700.00  
EASTING 146.9117  
NORTHING 43.5749  
HEIGHT 4.00  
CORRECTION 0.15  
G THEO 980,500.81  
G OBS 980,524.66  
BOUG ANOM 24.79

NUMBER 701.00  
EASTING 146.9141  
NORTHING 43.5720  
HEIGHT 2.00  
CORRECTION 0.12  
G THEO 980,500.55  
G OBS 980,524.12  
BOUG ANOM 24.09

NUMBER 702.00  
EASTING 146.8431  
NORTHING 43.5650  
HEIGHT 67.00  
CORRECTION 0.30  
G THEO 980,499.91  
G OBS 980,506.42  
BOUG ANOM 19.98

NUMBER 703.00  
EASTING 146.8421  
NORTHING 43.5663  
HEIGHT 40.00  
CORRECTION 0.28  
G THEO 980,500.03  
G OBS 980,510.93  
BOUG ANOM 19.05

NUMBER 704.00  
EASTING 146.8776  
NORTHING 43.5270  
HEIGHT 72.00  
CORRECTION 0.74  
G THEO 980,496.49  
G OBS 980,495.60  
BOUG ANOM 14.02

NUMBER 705.00  
EASTING 146.8753  
NORTHING 43.5272  
HEIGHT 84.00  
CORRECTION 0.73  
G THEO 980,496.50  
G OBS 980,492.61  
BOUG ANOM 13.36

NUMBER 706.00  
EASTING 146.8620  
NORTHING 43.4579  
HEIGHT 49.00  
CORRECTION 0.26  
G THEO 980,490.26  
G OBS 980,484.75  
BOUG ANOM 4.39

NUMBER 707.00  
EASTING 146.8616  
NORTHING 43.4452  
HEIGHT 61.00  
CORRECTION 0.51  
G THEO 980,489.12  
G OBS 980,479.72  
BOUG ANOM 3.11

NUMBER 708.00  
EASTING 146.8574  
NORTHING 43.4645  
HEIGHT 121.00  
CORRECTION 0.99  
G THEO 980,490.85  
G OBS 980,470.50  
BOUG ANOM 4.44

NUMBER 709.00  
EASTING 146.8750  
NORTHING 43.4479  
HEIGHT 68.00  
CORRECTION 0.80  
G THEO 980,489.35  
G OBS 980,477.97  
BOUG ANOM 2.79

NUMBER 710.00  
EASTING 146.8786  
NORTHING 43.5244  
HEIGHT 50.00  
CORRECTION 0.64  
G THEO 980,496.25  
G OBS 980,497.79  
BOUG ANOM 12.01

NUMBER 711.00  
EASTING 146.8757  
NORTHING 43.5234  
HEIGHT 69.00  
CORRECTION 0.70  
G THEO 980,496.16  
G OBS 980,493.42  
BOUG ANOM 11.53

NUMBER 712.00  
EASTING 146.8826  
NORTHING 43.5259  
HEIGHT 26.00  
CORRECTION 0.50  
G THEO 980,496.39  
G OBS 980,504.52  
BOUG ANOM 13.74

NUMBER 713.00  
EASTING 146.8862  
NORTHING 43.5240  
HEIGHT 18.00  
CORRECTION 0.39  
G THEO 980,496.29  
G OBS 980,506.25  
BOUG ANOM 13.89

NUMBER 714.00  
EASTING 146.8860  
NORTHING 43.4872  
HEIGHT 118.00  
CORRECTION 0.90  
G THEO 980,492.90  
G OBS 980,473.12  
BOUG ANOM 4.34

NUMBER 715.00  
EASTING 146.8830  
NORTHING 43.4733  
HEIGHT 168.00  
CORRECTION 0.98  
G THEO 980,491.65  
G OBS 980,461.90  
BOUG ANOM 4.35

0363036

037

863037

APPENDIX III

Ground Magnetic Survey.

Date 26.3.81 to 14.5.81 inclusive

~~Instrument:~~ Scintrex MF-2

Zero setting 60K

Location control by Gravity Stations

Magnetic Control: None

Tabulation of field results

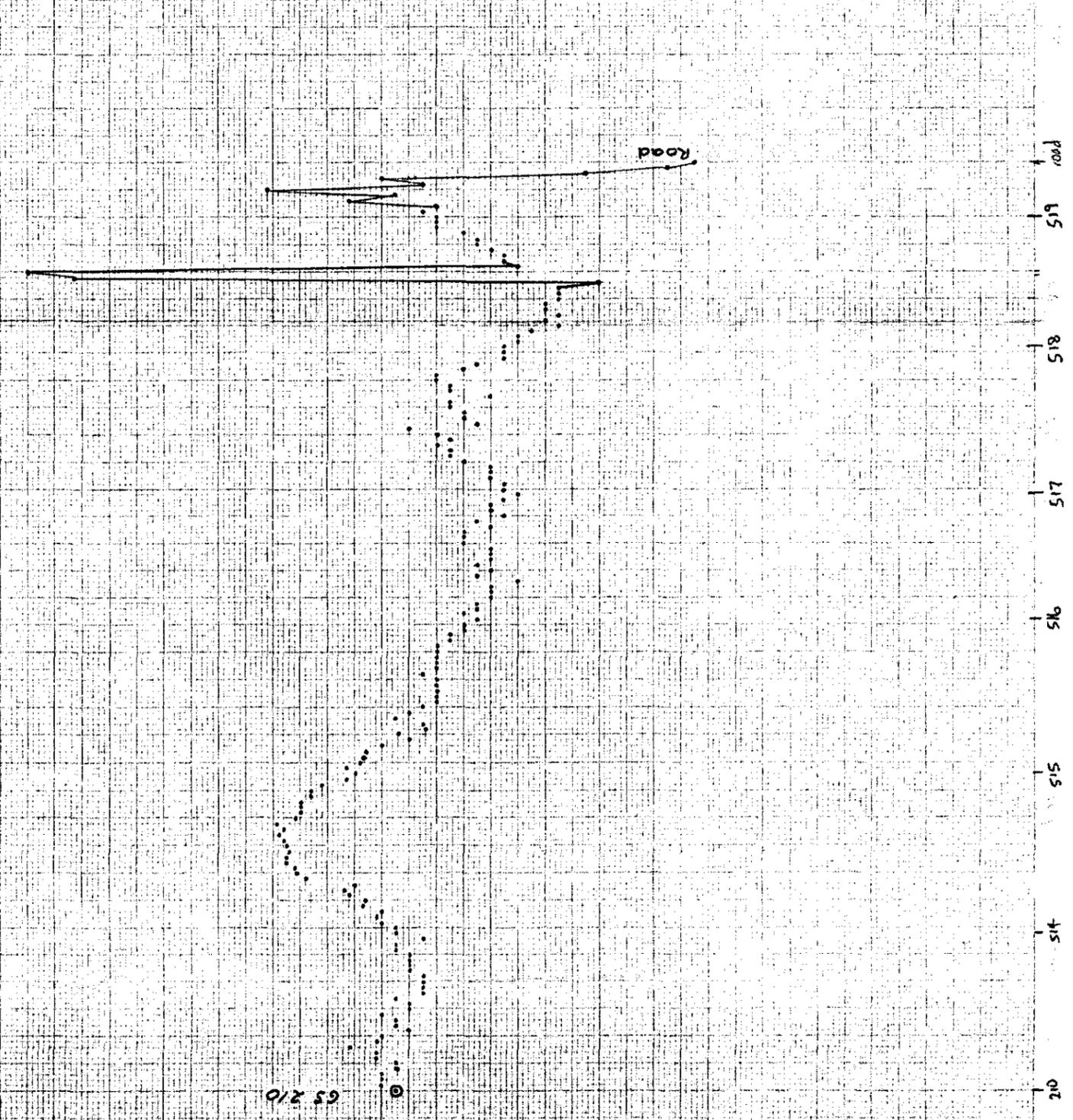
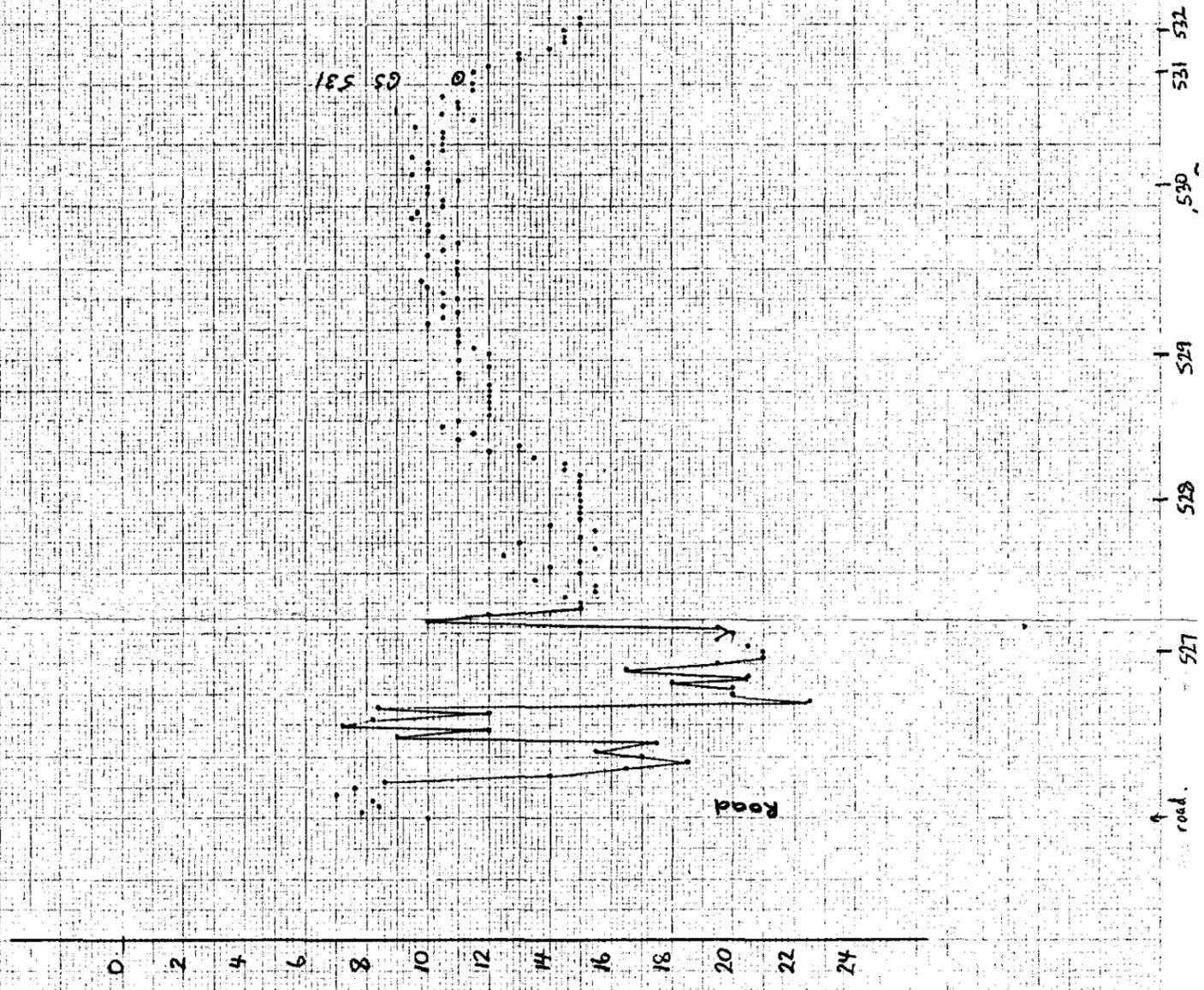
Traverse profiles

Location map: 1:50 000

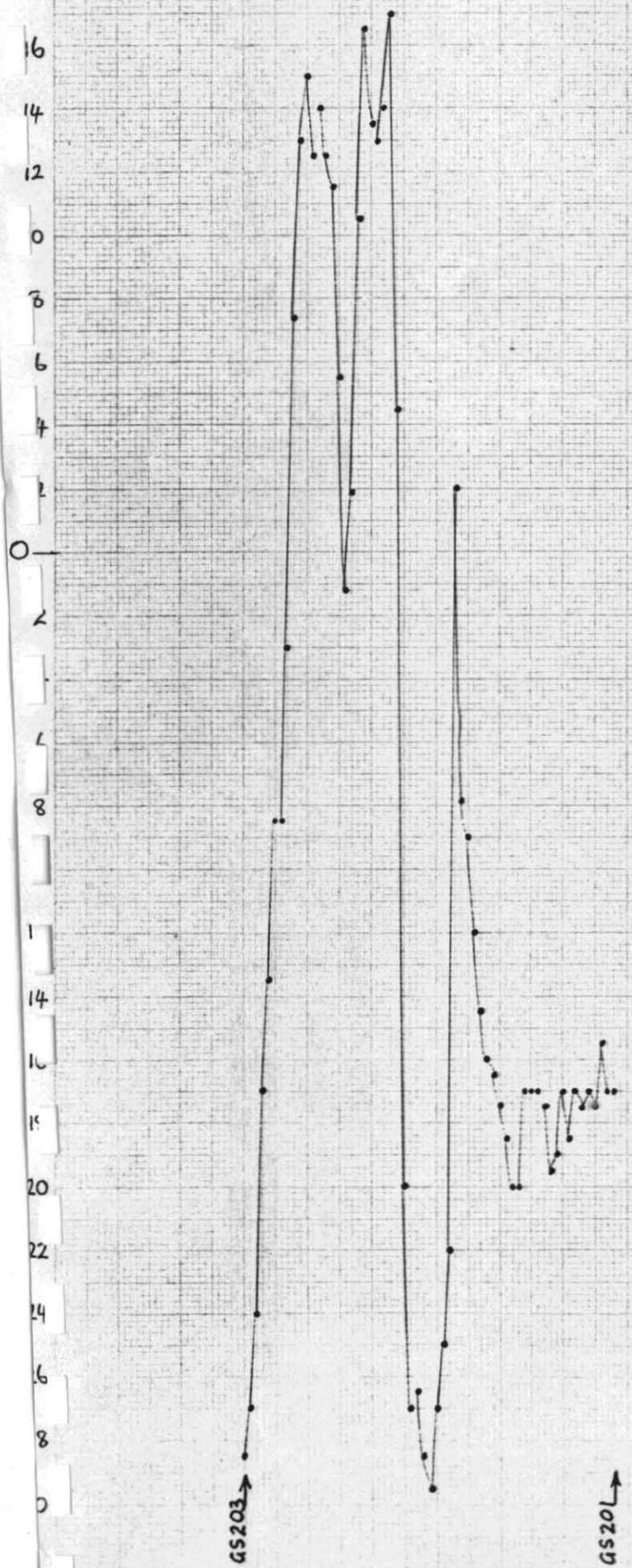
Interpretation map: 1:50 000

TRACK 13  
(9/5/81)

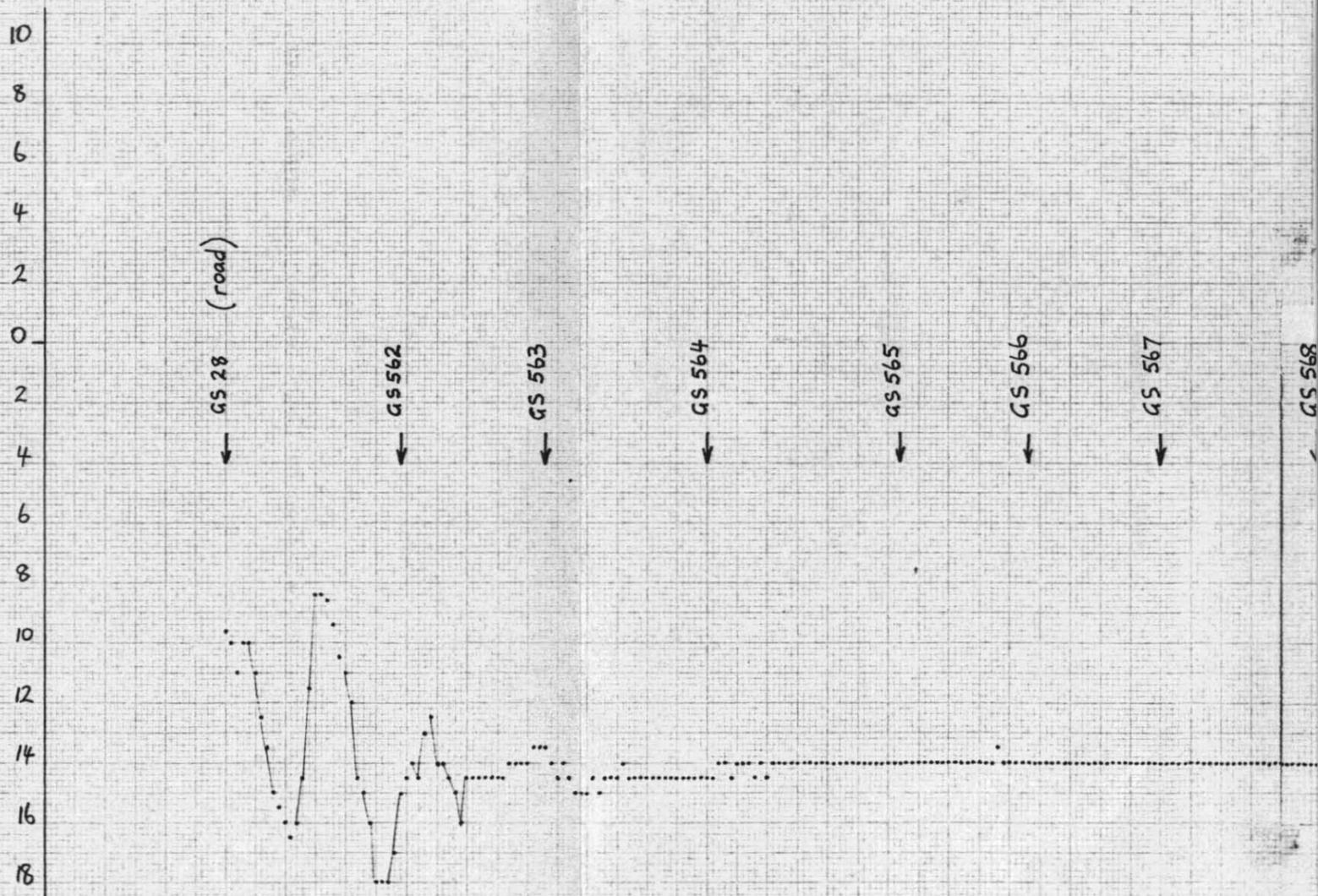
TRACK 6  
(9/5/81)



TRAVERSE BETWEEN ENDS OF SPURS 9 + 10.  
(14/4/81)



CAVES TRACK  
(8/5/81)



81-1639

040

TRACK 9  
(12/5/81)

20

10

0

4

8

10

12

18

20

↑ 3800

6559

6559

⊙ Road.

road

RECHERCHE BAY

532 533 534 535 536 537 538 539

81-1639

TRACK 3  
(7/5/81)

TRACK 7  
(7/5/81)

GS 35 (road)

GS 522

GS 523

GS 524

GS 525

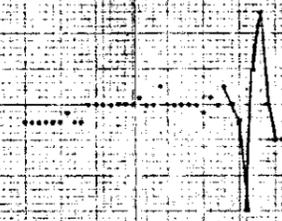
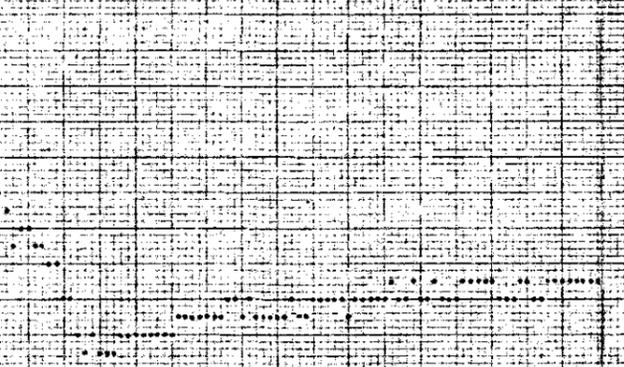
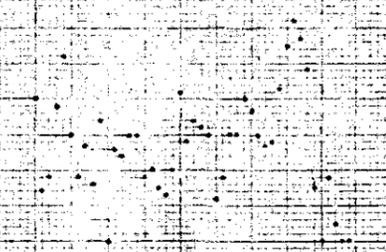
GS 526

GS 210

GS 513

GS 694 (north bank of  
D'Entrecasteaux River)

0  
2  
4  
6  
8  
10  
12  
14  
16  
18





044

TRACK 10  
(13/5/81)

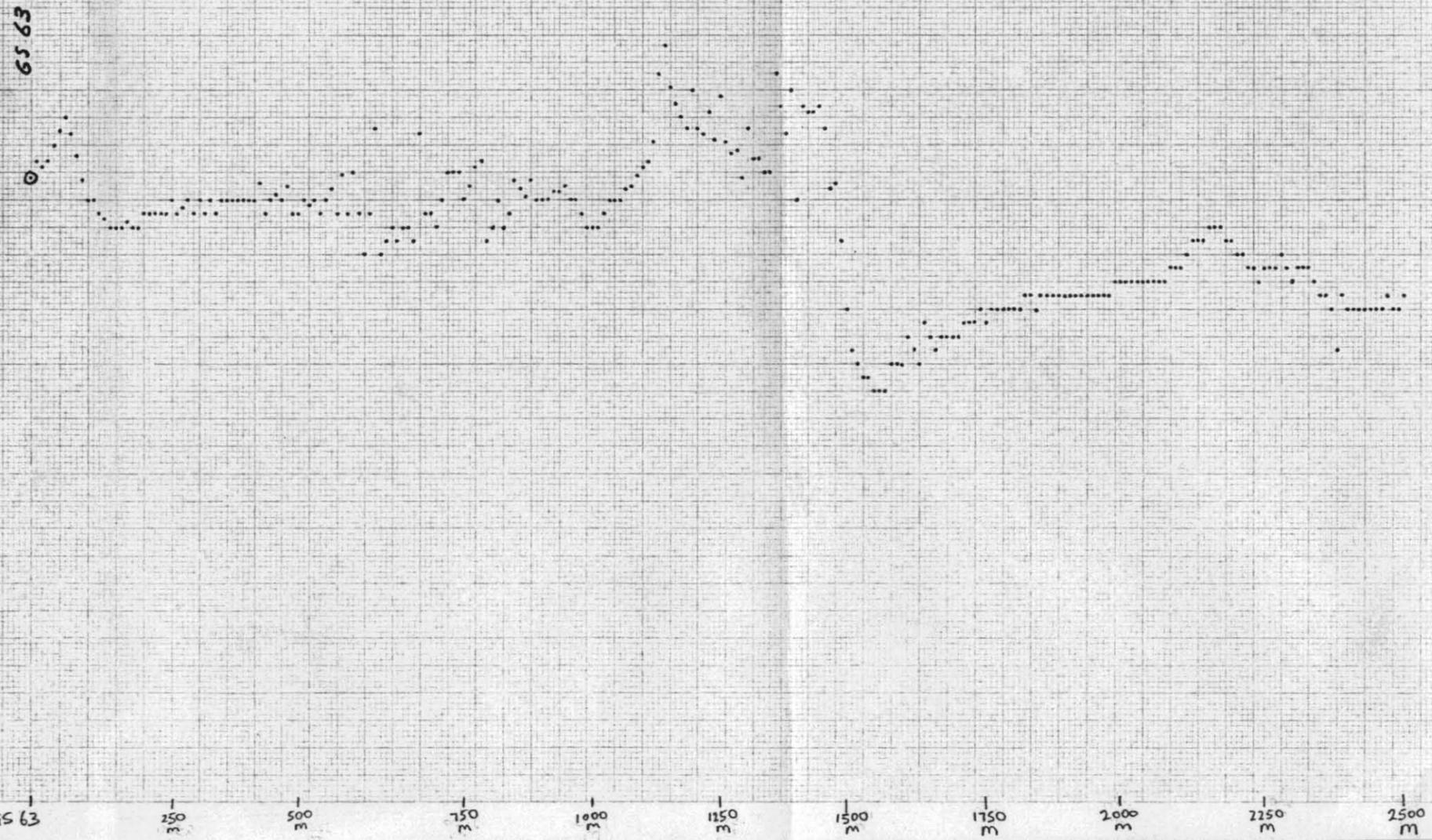
6563

0  
2  
4  
6  
8  
10  
12  
14  
16  
18  
20

GS 63      250 m      500 m      750 m      1000 m      1250 m      1500 m      1750 m      2000 m      2250 m      2500 m

81-1639

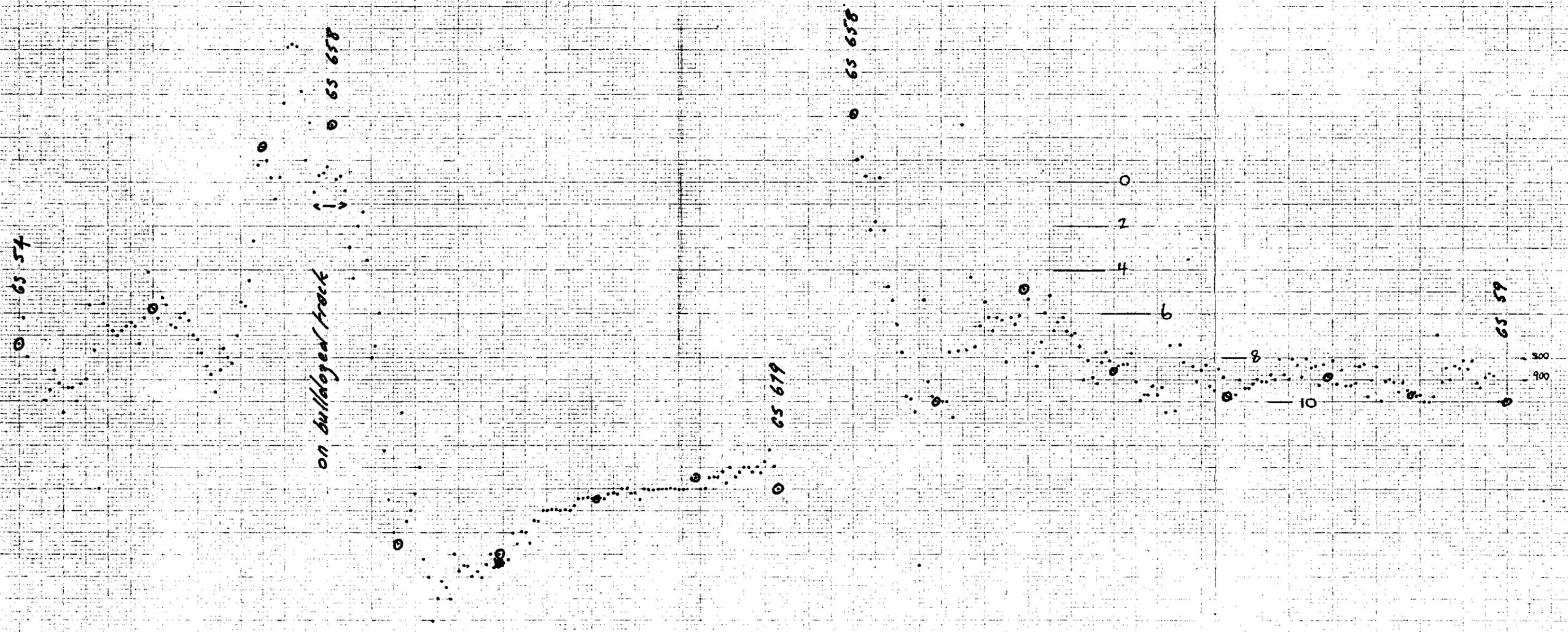
G.F.P. 1 mm



TRACK 5

TRACK 16 (part)

0  
2  
4  
6  
8  
10  
12  
14  
16



ROAD TO SOUTHPORT LAGOON

(14/5/81)

road

water's edge.

0 65 321

road 309 310 311 312 313 314 315 316 317 318 319 320 321 (water's edge).

046

0

6

12

14

18

20

22

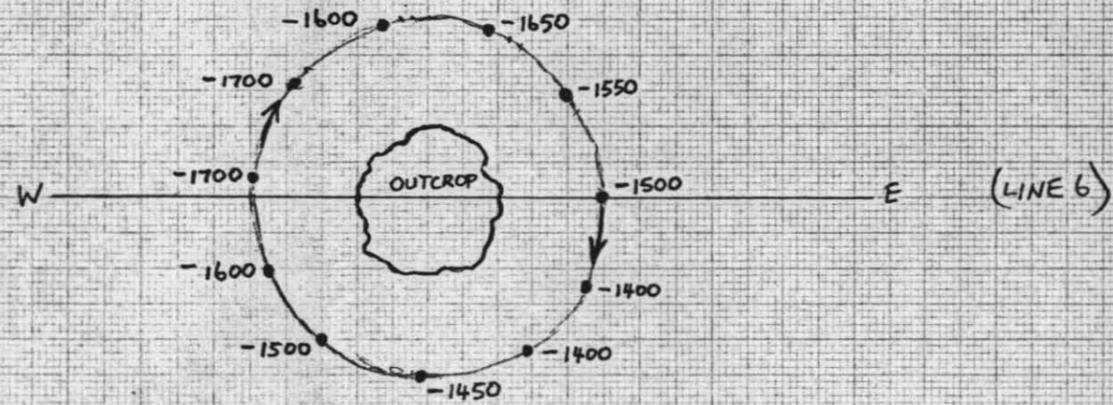
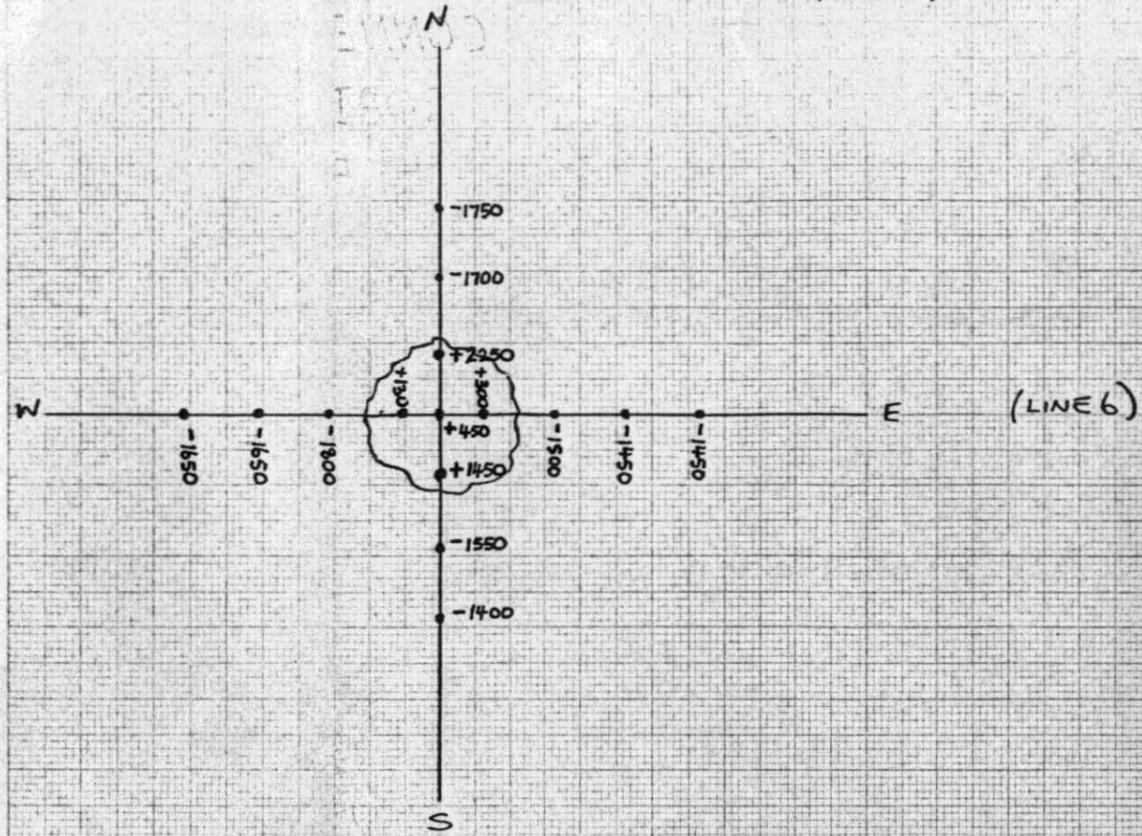
24

26

28

GAS A3 1mm

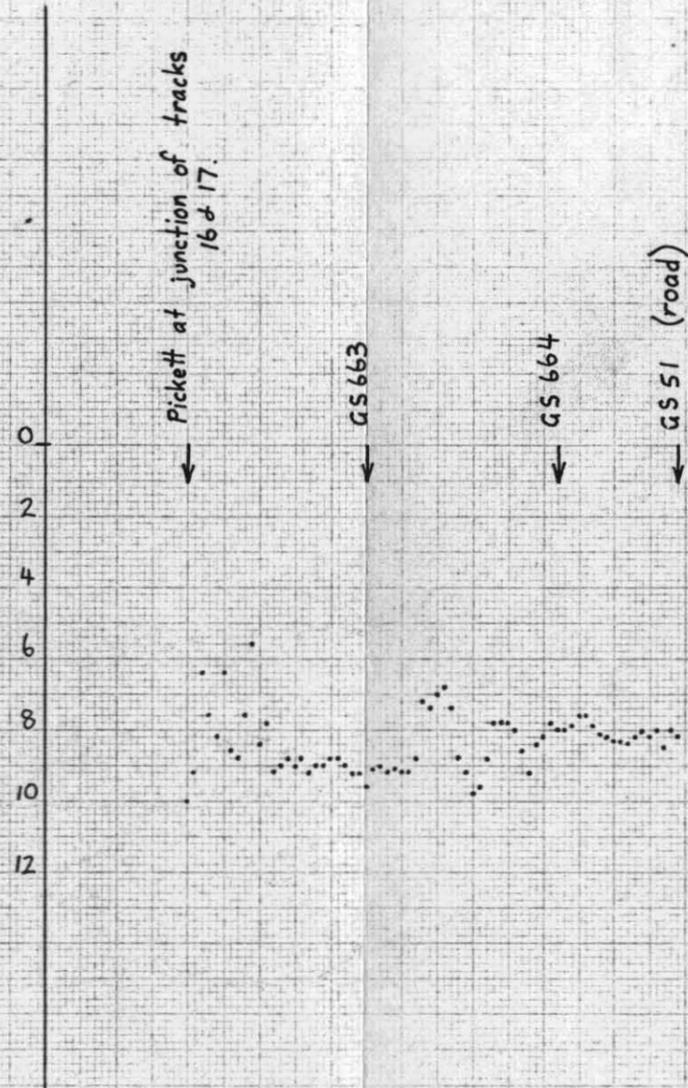
(9/5/81)



CIRCULAR OUTCROP LOCATED IN BUTTON GRASS  
BETWEEN GS 518 & GS 519

### CONNECTING TRACK BETWEEN ROAD & JUNCTION POINT OF TRACKS 16 & 17

(8/5/81)



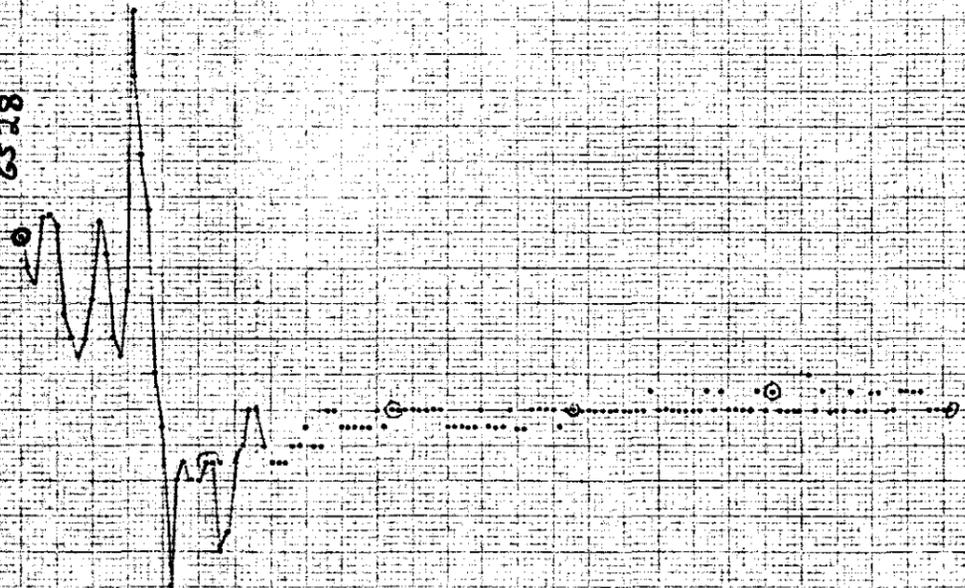
pickett at jnt  
of 16 & 17 | 663 | 664 | 51 (road)

81-1639

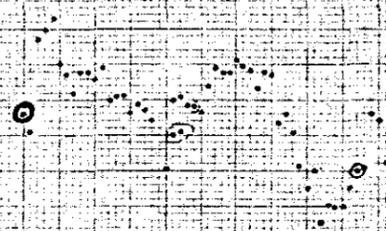
TRACK 2.

TRACK 8

6528



71259



TRACK 11  
(15/5/81)

TRACK 12  
(15/5/81)

12  
20  
10  
8  
6  
4  
2  
0  
2  
4  
6  
8  
10  
12  
14  
16  
18  
20  
22  
24  
26

4  
2  
0  
2  
4  
6  
8  
10  
12  
14  
16  
18

GS 224 680 681 682 683 684 685 (Catamaran Rv)

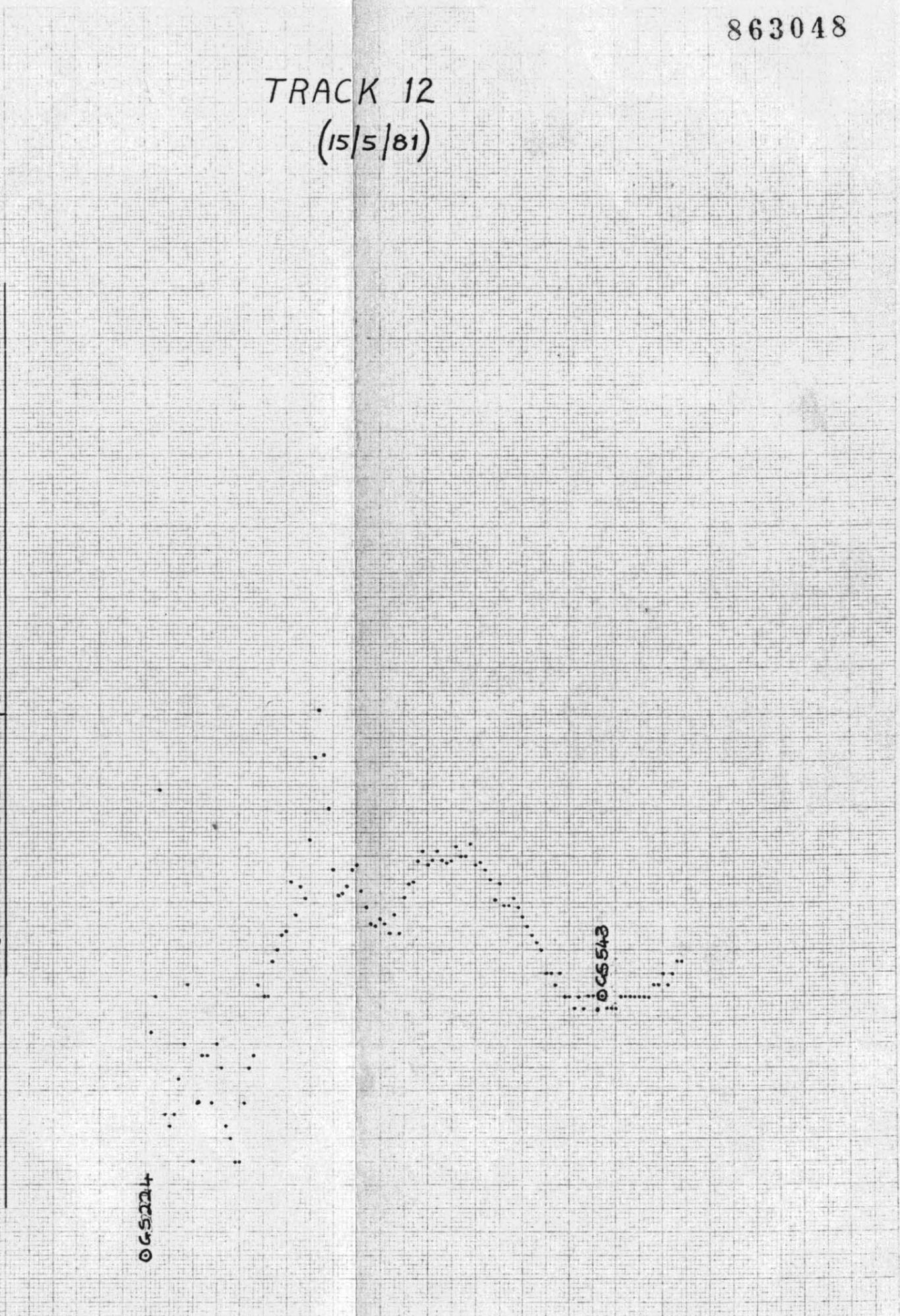
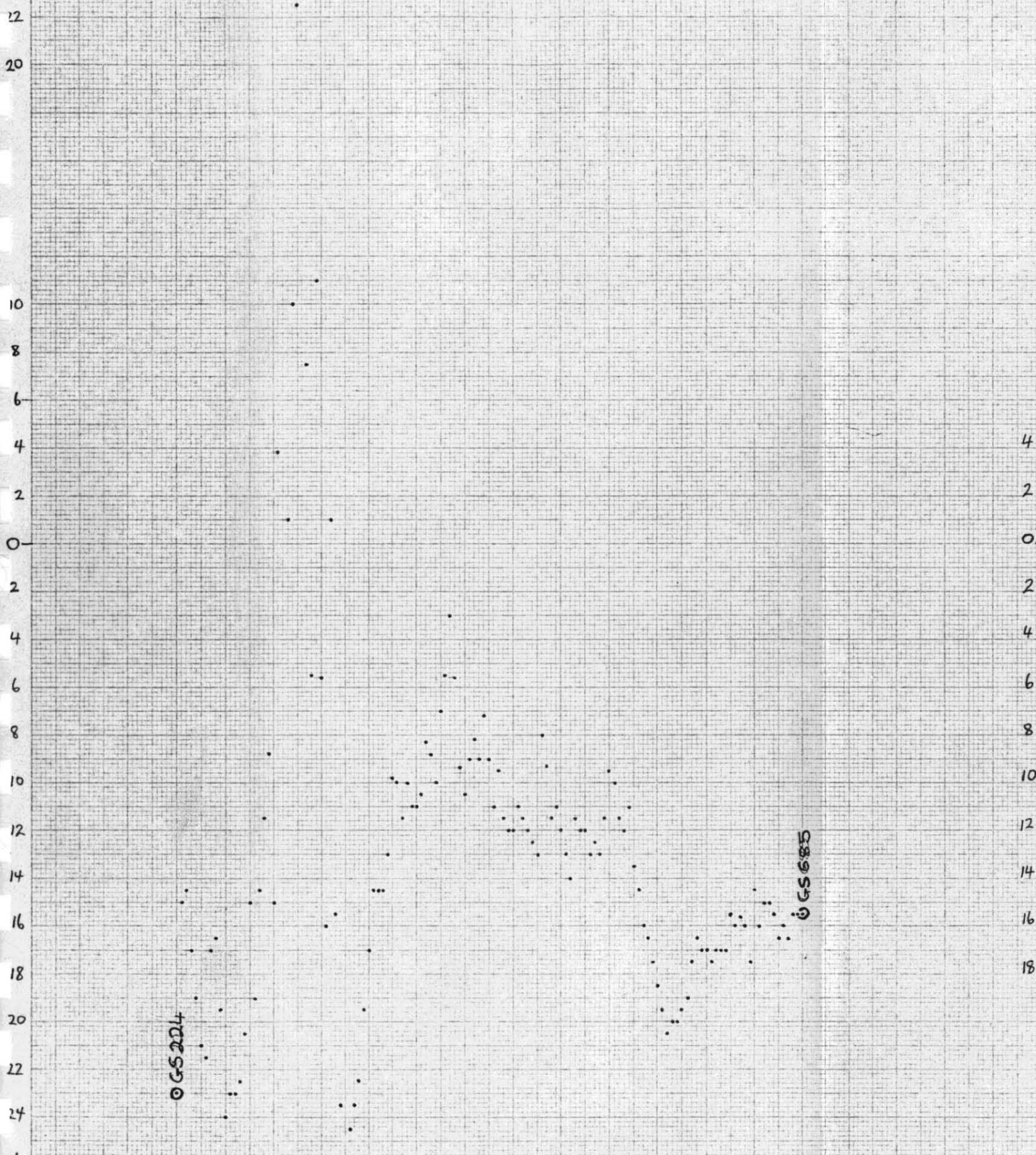
GS 224 540 541 542 543 CATAMARAN RIVER

81-1639

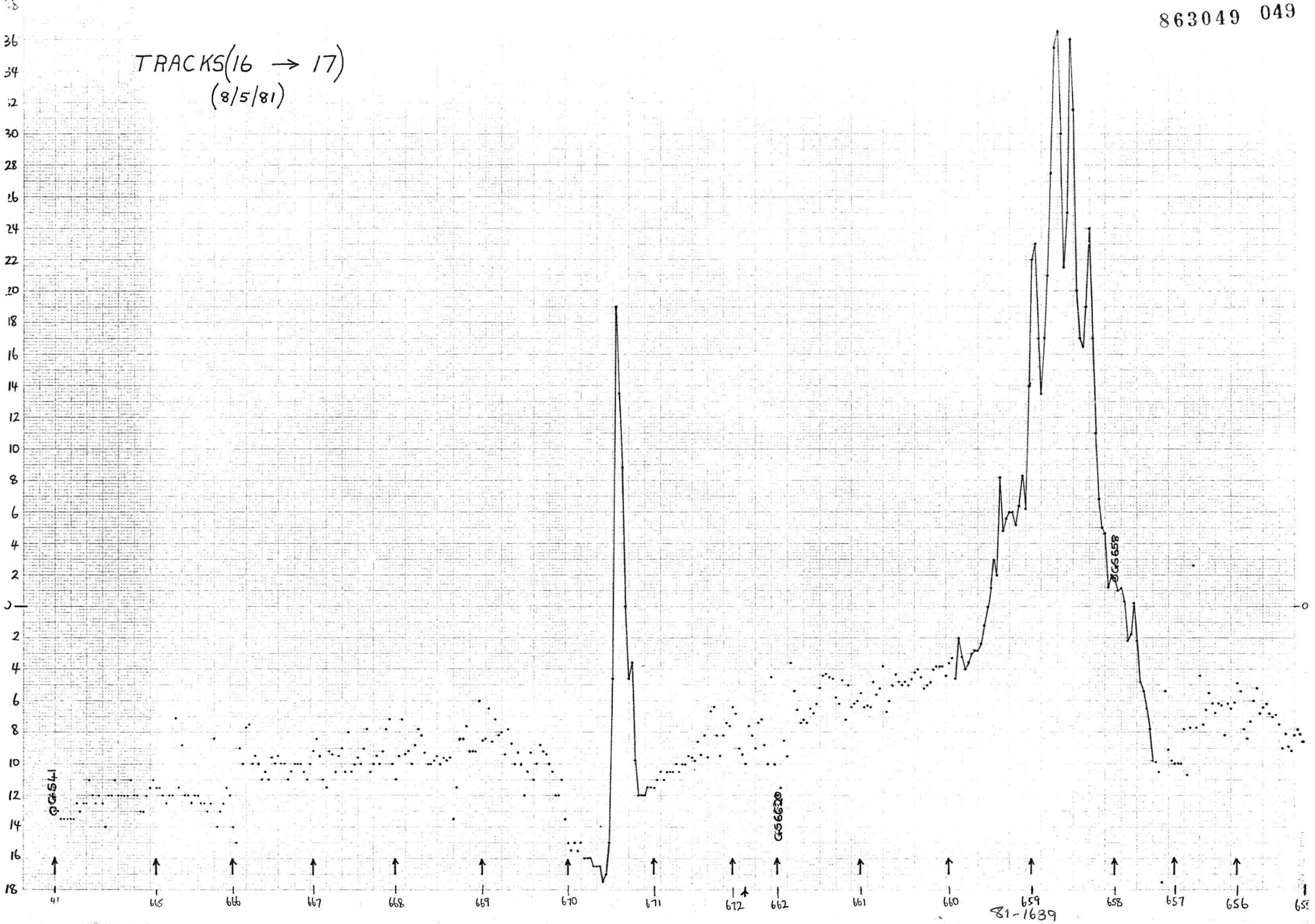
GSF 13 1 mm

0.8

1



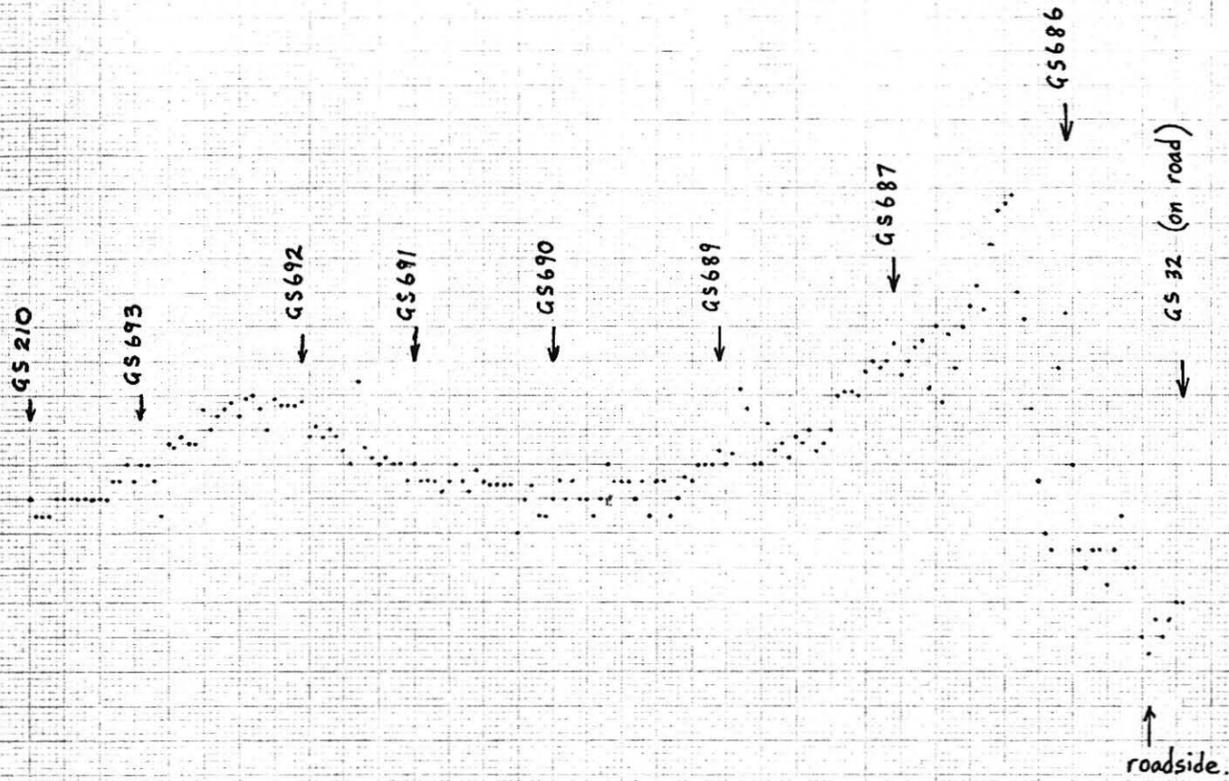
TRACKS(16 → 17)  
(8/5/81)



81-1639

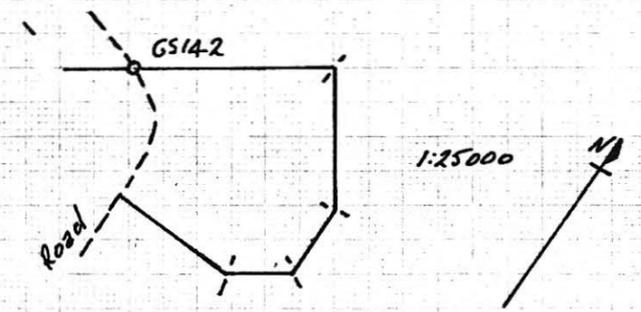
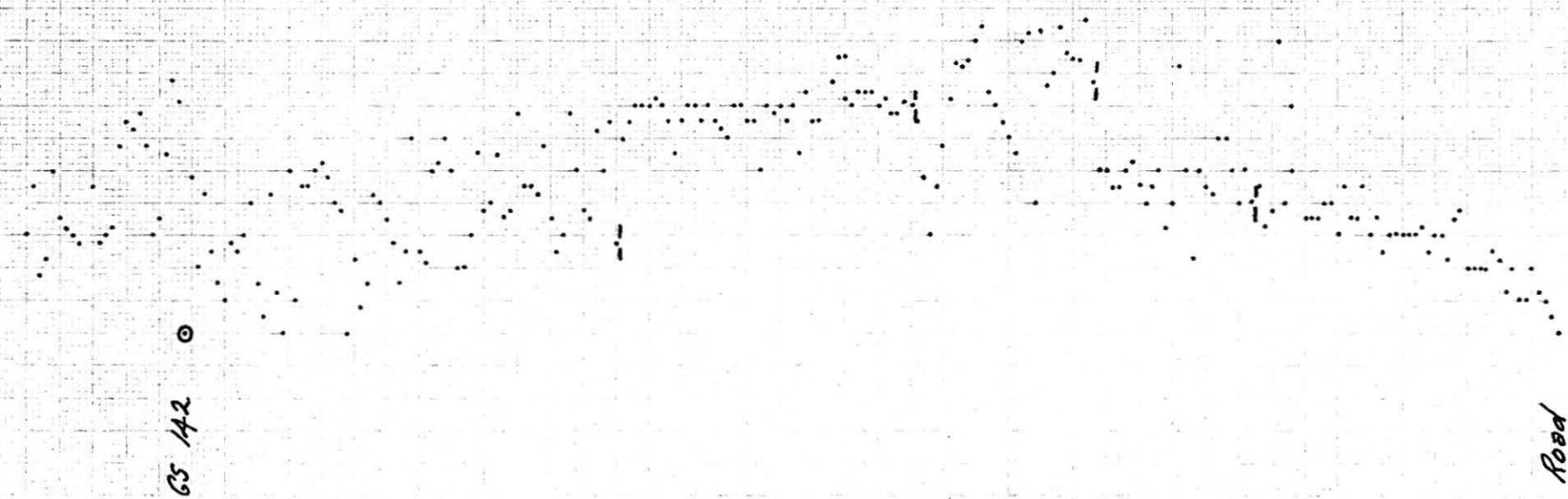
TRACK 15  
(7/5/81)

10  
8  
6  
4  
2  
0  
2  
4  
6  
8  
10  
12  
4  
6  
18



TRAVERSE AT GS 142

0  
5  
10  
15  
20  
25  
30  
35  
40  
45  
50  
55  
60  
65  
70  
75  
80  
85  
90  
95  
100



TRACK 1  
(12/5/81)

TRACK 14  
(12/5/81)

0 2 4 6 8 10 12 14 16 18 20

18 561 560 559 554 557

81-1639

(-1450)

25 547 548 549 550 551 552 553 554 555 556

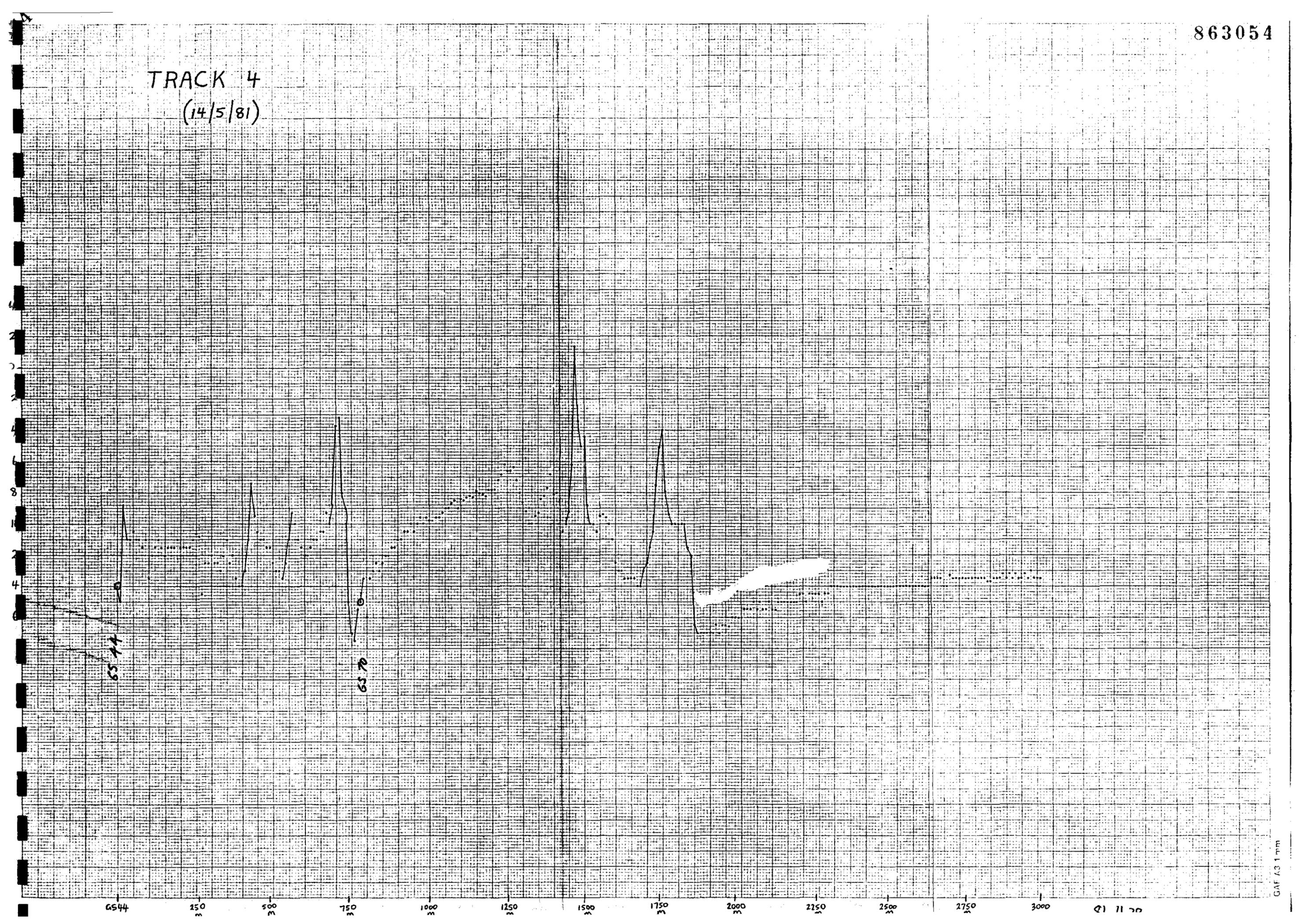
GS25

GS54

GS54



TRACK 4  
(14/5/81)



South Cape Road

- 710	Gravity Station 28	-1300
- 800		-1350
-1800		-1350
- 840		-1350
- 660		-1300
- 650		-1300
- 680		-1250
- 680		-1300
- 930		-1300
-1000		-1200
-1050		-1200
-1000		-1250
- 890		-1250
- 670		-1250
- 760		-1250
-1000		-1250
-1050		-1200
- 870		-1250
- 70		-1200
- 260		-1200
- 480		-1200
- 640		-1200
-1100		-1200
-1250		-1200
-1700		-1200
-1400		-1200
-1350		-1250
-1400		-1250
-1400		-1250
-1350	250m	-1250
-1350		-1250
-1600		-1200
-1550		-1250
-1350		-1250
-1300		-1250
-1200		-1200
-1200		-1250

500m



057

863056

-1150		- 700	
-1000		- 570	
-1050		- 600	
- 990		- 630	
- 890		- 890	
- 840		- 840	Gravity Station 214
- 870			
- 730		- 910	Close Traverse
- 720			
- 770		-1500	Gravity Station 8
- 720		-1500	
- 710		-1500	
- 690		-1500	
- 720		-1475	
- 720		-1475	
- 710		-1475	
- 760		-1475	
- 840		-1450	
- 820	250m Peg	-1450	
- 820		-1475	
- 790		-1500	
- 800		-1500	
-1000		-1500	
- 860		-1500	
- 830		-1500	
- 810		-1500	
- 840		-1500	
- 790		-1500	
- 790		-1500	
- 800		-1500	
- 710		-1500	
- 740		-1500	
- 720		-1525	
- 720		-1525	
- 780		-1525	
- 730		-1500	Gravity Station 248

-1525		-1575
-1525		-1600
-1500		-1600
-1525		-1675
-1525		-1650
-1500		-1750
-1550		-1550
-1525		-1625
-1525		-1550
-1525		-1525
-1500		-1450
-1500		-1525
-1500		-1450
-1500		-1500
-1500		-1300
-1500		-1425
-1500		-1575
-1500		-1450
-1525		-1400
-1525		-1500
-1500		-1525
-1500		-1450
-1525	Gravity Station 249	-1550
-1525		-1625
-1550		-1625
-1525		-1550
-1500		-1375
-1525		-1550
-1500		-1625
-1550		-1125
-1525		-1125
-1550		-1100
-1525		-1075
-1550		-1000
-1600		-1350
-1550		-1050

Gravity Station 250

- 690  
 -1350  
 -1150  
 -1100  
 -1050  
 - 840  
 - 800  
 - 600  
 -1100  
 - 980  
 -1300  
 -1175  
 -1450  
 -1900  
 -1825  
 -1650  
 -1550  
 -1775  
 -1850  
 -1950  
 -1900  
 -1800  
 -1800  
 -1725  
 -1750  
 -1900  
 -2025  
 -1825  
 -1800  
 -1925  
 -1800  
 -1425  
 -1800  
 -1275  
 -1050  
 - 910

Gravity Station 252

- 960  
 -1025  
 -1000  
 -1300  
 - 640  
 - 480  
 - 810  
 -1050  
 -1200  
 - 140  
 - 780  
 -1150  
 -1275  
 -1800  
 -1875  
 -1800  
 -1775  
 -1525  
 -1550  
 -1450  
 -1500  
 -1350  
 -1400  
 -1400  
 -1475  
 -1475  
 -1450  
 -1475  
 -1500  
 -1525  
 -1550  
 -1550  
 -1550  
 -1575  
 -1600  
 -1600

Gravity Station 253

-1500		-1100
-1450		-1450
-1475		-1550
-1425		-1725
-1350		-1750
-1225		-1750
-1300		-1750
-1450		-1700
-1500		-1650
-1400		-1600
-1225		-1575
-1175		-1450
-1000		
-1050		-1500
-1175		-1550
-1150		-1525
-1200		-1550
-1225		-1600
-1325		-1600
-1300		-1625
-1350	Gravity Station 255	-1600
	South	-1600
-1275		-1475
-1225		-1300
-1350		-1250
-1575		-1225
- 900		-1375
- 920		-1450
- 950		-1450
- 650		-1450
- 320		-1450
+ 140		-1450
+ 640		-1450
+1325		-1475
+ 700		-1525
+ 200		-1500

West

-1575		-1400
-1675		-1300
-1950		-1425
+ 160		-1350
- 570		-1300
- 900		-1300
-1450		-1275
-1350		-1375
-1225		-1700
-1200		-1700
- 340		-1700
-1050		-1625
-1000		-1600
-1300		-1600
-1225		-
-1100		-1450
-1375		-1375
-1150		-1525
-1325		-1550
-1375		-1550
-1250		-
-1125		-1550
-1100		-1550
-1400		-1550
-1250		-1525
-1425		-1500
-1350		-1500
-1150		-1525
-1400		-1550
-1400	Gravity Station 258	-1575
-1275		-1550
-1550		-1550
-1425		-1500
-1500		-1500
-1275		-1475
-1475		-1450

Turn South

Turn West

-1425  
-  
-1475  
-1450  
-1350  
-1300  
-1250  
-1250  
-1400  
-1400  
-1275  
-1225  
-1250  
-1325  
-1550  
-1525  
-1475  
-1500  
-1575  
-1500  
-1600  
-1625  
-1575  
-1850  
-1600  
-1650  
-1450  
-1475  
-1625  
-1550  
-1625  
-1600  
-1600  
-1575  
-1550  
-1575

Gravity Station 260

-1500  
-1550  
-1550  
-1550  
-1550  
-1525  
-1550  
-1550  
-1550  
-1550  
-1525  
-1550  
-1550  
-1525  
-1550  
-1550  
-1550  
-1525  
-1550  
-1500  
-1525  
-1550  
-1550  
-1550  
-1550  
-1550  
-1575  
-1550  
-1550  
-1550  
-1550

Gravity Station 262

-1550		- 770
-1550		-1400
-1550		- 560
-1550		- 660
-1600		- 680
-1575		- 900
-1575		- 680
-1575		- 660
-1550		- 640
-1550		- 660
-1575		- 740
-1575		- 620
-1550		- 410
-1550		- 580
-1600		- 620
-		- 530
-1500	Gravity Station 8	- 560
-		- 650
<u>Line 5</u>	<u>10/4/81</u>	- 660
- 740	Gravity Station 54	- 620
- 620		- 600
- 800		- 630
-2340		- 700
-2400		- 720
-2320		- 780
-1000		- 840
- 950		- 880
- 860		- 960
- 920		- 860
-1050		- 760
- 940		- 800
- 940		- 830
-1000		- 700
- 920		- 550
- 900		- 570
- 560		- 450

Gravity Station 673

- 270		-1050
+ 80		-1550
+ 160	Gravity Station 674	-1500
+ 100		-1425
+ 20		-1300
- 80		-1725
+ 20		-1800
+ 360		-2000
+ 610		-1900
+ 630		-1825
+ 620		-1850
+ 410		-1900
+ 100		-1700
+ 270		-1775
- 50		-1750
+ 30		-1750
+ 40		-1800
+ 70		-1775
+ 260	Gravity Station 658	-1800
+ 10		-1750
+ 30		-1700
- 40		-1725
- 300		-1700
- 440		-1700
- 200		-1725
- 140		-1600
- 360		-1650
- 800		-1600
- 750		-1600
- 600		-1650
-1225		-1550
-1450		-1550
-1600		-1500
-1650	Gravity Station 675	-1500

Gravity Station 676

065

863064

-1500		-1350	
-1500		-1350	
-1500		-1325	
-1500		-1375	
-1500		-1300	
-1475		-1350	
-1450		-1325	
-1450		-1300	
-1450		-1300	
-1450	Gravity Station 677	-1325	
-1450		-1300	
-1450		-1325	
-1425		-1275	
-1425		-1225	
-1425		-1300	
-1400		-1400	Gravity Station 679
-1400		+ 310	Gravity Station 658
-1425		+ 100	
-1425		+ 110	
-1450		+ 30	
-1400		- 220	
-1400		- 180	
-1400		+ 20	
-1400		- 220	
-1400		- 480	
-1400		- 540	
-1400		- 650	
-1400		- 780	
-1400		- 980	
-1400		- 990	
-1400		-1050	
-1350		-1760	
-1350	Gravity Station 678	- 540	
-1400		- 910	
-1400		- 980	
-1350		-1000	Gravity Station 657

- 1000
- 780
- 1075
- 770
- + 260
- 770
- 440
- 750
- 660
- 550
- 620
- 680
- 620
- 630
- 820
- 620
- 650
- 610
- 490
- 540
- 780
- 840
- 730
- 600
- 520
- 680
- 640
- 620
- 680
- 700
- 690
- 760
- 900
- 810
- 890
- 920

Gravity Station 656

- 820
- 770
- 810
- 860
- 840
- 830
- 830
- 780
- 910
- 1000
- 970
- 970
- 930
- 970
- 940
- 1050
- 740
- 820
- 350
- 840
- 910
- 860
- 830
- 930
- 950
- 880
- 890
- 980
- 990
- 970
- 900
- 940
- 940
- 920
- 900
- 910

Gravity Station 655

Gravity Station 654

- 910		-1000	
- 880		-1000	
- 900		- 980	
- 810		-1700	
- 880		- 910	
- 900		- 850	
- 800		- 900	
- 840		- 840	
- 890		- 850	
- 800		- 810	
- 850		- 850	
- 840		- 810	
- 930		- 920	
- 830		- 940	
- 890	Gravity Station 653	- 890	Road
- 820		- 870	
- 920		- 880	
- 860		-1000	
- 930		-1000	
- 930		-1000	Gravity Station 59
- 920			
- 840			
- 830			
- 980			
- 900			
- 840			
-1000			
- 910			
- 900			
- 910			
- 960			
- 910			
- 950			
- 970	Gravity Station 652		
- 980			
- 970			

068

863067

Line 7    7/5/81

N-S

-1050	Gravity Station 210	-1100	
-1050		-1100	
-1050		-1050	
-1050		-1100	
-1050		-1050	
-1050		-1050	
-1025		-1050	Gravity Station 694
-1050			<u>Line 15</u> N
-1050		-1100	Gravity Station 210
-1000		-1150	
-1000		-1150	
-1000		-1150	
-1000		-1100	
-1000		-1100	
-1000		-1100	
-1000		-1100	
- 980		-1100	
-1000		-1100	
-1000		-1100	
- 950		-1100	
-1000		-1050	
-1000		-1050	
-1000		-1000	
-1000		-1050	
-1000	Gravity Station 513	-1000	Gravity Station 693
-1025		-1000	
- 980		-1050	
-1000		-1150	
- 950		- 940	
-1000		- 950	
-1000		- 920	
-1050		- 940	
-1300		- 940	
- 900		- 840	
- 740		- 900	
-1000		- 860	

- 840		-1020	
- 820		-1050	
- 860		-1060	
- 810		-1060	
- 800		-1060	
- 840		-1060	
- 900		-1200	
- 810		-1100	
- 830	Turned 90° to west	-1060	
- 830		-1150	
- 830		-1150	
- 820	Gravity Station 692	-1100	Gravity Station 690
- 920		-1050	
- 890		-1100	
- 920		-1050	
- 900		-1100	
- 920		-1100	
- 960		-1150	
-1000		-1100	
- 760		-1000	
- 950		-1050	
- 980		-1050	
-1000		-1050	
- 980		-1100	
-1000		-1050	
-1000		-1150	
-1050		-1050	
-1000	Gravity Station 691	-1050	
-1050		-1150	
-1050		-1100	
-1050		-1050	
-1080		-1050	
-1050		-1000	
-1000		-1000	
-1050		-1000	
-1080		- 960	Gravity Station 689

070

-1000		- 480	
- 970		- 550	
- 780		- 360	
- 840		- 260	
-1000		- 240	
-1000		- 220	
- 880		- 500	
- 960		- 580	
- 940		- 840	
- 980		-1050	
- 920		-1200	
- 940		-1250	
- 900		- 720	
- 960		- 560	Gravity Station 686
- 940		-1000	
- 900		-1250	
- 800		-1300	
- 790		-1250	
- 790		-1250	
- 800		-1350	
- 730		-1250	
- 700		-1150	
- 720		-1300	
- 700		-1300	
- 650	Gravity Station 687	-1500	
- 740	1500m Peg	-1550	Road, turn 90°South
- 700		-1450	
- 660		-1500	
- 640		-1450	
- 780		-1400	
- 600		-1400	Gravity Station 32
- 820		Line 3	E-W
- 620		- 600	Gravity Station 35
- 720		- 860	
- 600		- 820	
- 540		- 620	

071

863070

- 480		-1000
- 700		- 820
- 820		- 950
- 730		-1000
- 840		-1000
- 660		-1150
-1000		-1200
- 740		-1200
- 760		-1100
- 700		-1200
- 700		-1050
- 820		-1100
- 800		-1150
- 850		-1250
- 870		-1200
- 800		-1200
- 580		-1250
- 720		-1250
- 660		-1300
- 680		-1300
- 700		-1400
- 880		-1400
- 820		-1500
- 700		-1550
- 700		-1500
- 600		-1550
- 630	Gravity Station 522	-1550
- 700		-1550
- 730		-1500
- 720		-1500
- 570		-1500
- 450		-1500
- 380		-1500
- 430		-1500
- 520		-1500
- 850		-1500

Gravity Station 523



-1250		-1250	
-1100		-1250	
-1200		-1300	
-1250		-1250	
-1200		- 840	
-1250		-1400	
-1400		-1300	
-1200		-1250	
-1200		-1150	
-1100		-1200	
-1200		-1400	Gravity Station 666
-1200		-1500	
-1200		- 900	
-1200		-1000	
-1100		- 770	
-1200		- 750	
-1200		-1000	
-1300		- 950	
-1300		-1000	
-1200		-1100	
-1150		-1050	
-1100		-1100	
-1150	Gravity Station 665	- 960	
-1150		-1000	
-1200		- 950	
-1250		-1000	
-1200		-1000	
-1200		-1100	
- 710		-1050	
-1150		-1000	
- 880		-1000	
-1200		-1000	
-1200		-1050	
-1250		-1100	
-1200		-1000	
-1200		- 920	Gravity Station 667

- 840		-1000
- 950		- 980
-1100		- 950
-1150		-1000
- 920		- 960
- 940		- 980
-1050		-1350
- 950		-1150
- 900		- 840
-1050		- 840
- 800		- 760
-1050		- 920
-1000		- 920
- 960		- 920
-1000		- 600
- 900		- 850
- 780		- 840
-1050		- 650
-1000		- 860
- 950		- 720
-1000		- 820
- 920		- 800
- 780		- 940
- 720		- 780
-1000		- 870
-1100	Gravity Station 668	-1000
- 950		- 930
- 720		-1000
- 940		-1200
- 920		-1050
-1000		- 930
- 880		-1100
- 780		-1000
- 820		- 880
- 930		- 920
-1000		- 940

Gravity Station 669

075

863074

-1000		-1100
-1050		-1050
-1200		-1050
-1200		-1050
-1100		-1000
-1350		-1050
-1500	Gravity Station 670	-1000
-1550		-1000
-1500		- 950
-1550		- 960
-1500		- 980
-1600		- 860
-1600		- 940
-1600		- 820
-1650		- 960
-1650		- 670
-1650		- 640
-1750		- 820
-1700		- 950
-1500		- 820
+ 460		- 740
+1900		- 760
+1350		- 640
+ 880		- 680
- 0		- 900
- 460		- 940
- 360		-1000
- 980		- 760
-1200		- 820
-1200		- 900
-1200		- 740
-1150		- 720
-1150		- 880
-1150	Gravity Station 671	-1000
-1100		- 450
-1050		-1000

Gravity Station 672

076

863075

-1200	Gravity Station 662	- 500	
-1150		- 430	
- 850		- 480	
- 950		- 500	
- 360		- 480	
- 540		- 500	
- 660		- 460	
- 740		- 420	
- 720		- 400	
- 740		- 450	
- 650		- 520	
- 680		- 500	
- 620		- 480	
- 520		- 400	
- 440		- 380	
- 430		- 380	
- 450		- 380	
- 460		- 440	
- 580		- 360	Gravity Station 660
- 620		- 330	
- 470		- 460	
- 720		- 200	
- 500		- 320	
- 640		- 400	
- 620		- 360	
- 600		- 300	
- 550	Gravity Station 661	- 280	
- 640		- 280	
- 630		- 240	
- 640		- 120	
- 480		0	
- 560		+ 120	
- 520		+ 300	
- 380		- 200	
- 670		- 820	
- 600		- 480	

Handwritten mark

077

863070

- 480		-1000
- 560		- 920
+ 600		- 640
- 600		- 760
- 520		- 820
- 640		- 640
- 830		- 860
- 620		- 880
-1400		- 760
-2200	Gravity Station 659	- 560
-2300		- 840
-1700		- 780
-1350		- 920
-1700		- 900
-2100		- 880
-2750		- 900
-3550		- 880
-3650		- 920
-3000		- 900
-2150		- 900
-2500		- 880
-3600		- 880
-3150		- 900
-2000		- 920
-1700		- 920
-1650		- 960
-1900		- 910
-2400		- 900
-1700		- 920
-1100		- 910
- 680		- 920
- 500		- 880
- 460		- 720
- 120		- 740
- 200		- 700
- 180	Gravity Station 658	- 680

Gravity Station 663

- 740		-1100
- 880		-1000
- 920		-1000
- 980		-1100
- 960		-1250
- 880		-1350
- 780		-1500
- 780		-1550
- 780		-1600
- 800		-1650
- 860		-1600
- 920		-1450
- 840		-1150
- 820		- 840
- 780		- 840
- 800	Gravity Station 664	- 860
- 800		- 940
- 790		-1050
- 760		-1100
- 760		-1200
- 790		-1450
- 810		-1500
- 820		-1600
- 830		-1800
- 830		-1800
- 830		-1800
- 840		-1700
- 820		-1500
- 800		-1450
- 820		-1400
- 800		-1450
- 850		-1300
- 800		-1250
- 820	Gravity Station 51	-1400
- 960	Gravity Station 28	-1400
-1000		-1450

Caves Track

Gravity Station 562





-1400  
-1400  
-1400  
-1400  
-1400  
-1400  
-1400  
-1400  
-1400  
-1400  
-1350  
-1350  
-1350  
-1400  
-1400  
-1400  
-1400  
-1400  
-1400  
-1400

Gravity Station 568



082

863081

Line 6

Saturday, 9th May, 1981

-1050	Gravity Station 210	- 880	
-1000		- 860	
-1000		- 900	
-1000		- 720	
-1050		- 690	
-1050		- 680	
- 980		- 650	
- 880		- 650	
- 980		- 660	
-1000		- 650	
-1100		- 640	
-1050		- 620	
-1050		- 640	
-1000		- 610	
-1100		- 680	
-1100		- 700	
-1050		- 700	
-1150		- 700	
-1150		- 740	
-1150		- 740	
-1150		- 780	
-1100		- 870	
-1100		- 900	Gravity Station 515
-1100		- 870	
-1100		- 920	
-1050		- 930	
-1050		- 940	
-1150		-1000	
-1050	Gravity Station 514	-1100	
-1050		-1000	
-1000		-1160	
- 980		-1150	
-1000		-1050	
- 930		-1100	
- 940		-1150	

083

863082

-1200		-1400
-1200		-1400
-1200		-1450
-1200		-1500
-1200		-1450
-1150		-1450
-1200		-1400
-1200		-1400
-1200		-1400
-1200		-1300
-1200		-1250
-1250		-1200
-1250		-1250
-1300		-1200
-1300		-1100
-1350	Gravity Station 516	-1350
-1300		-1300
-1350		-1300
-1350		-1250
-1400		-1250
-1400		-1400
-1400		-1250
-1500		-1250
-1350		-1200
-1100		-1200
-1350		-1300
-1400		-1350
-1350		-1450
-1400		-1450
-1400		-1450
-1400		-1500
-1300		-1500
-1300		-1550
-1300		-1650
-1400		-1600
-1350		-1650
-1450		-1600

Gravity Station 517

Gravity Station 518

084

863083

-1600		-1850
-1650		-1700
-1650		-1550
-1650		-1750
-1800		- 900
+ 130		-1200
+ 300		- 720
-1500		- 820
-1450		-1200
-1400		- 840
-1350		-2250
-1350		-2000
-1300		-2000
-1200		-1800
-1200		-2050
-1200	Gravity Station 519	-1650
-1150		-1950
-1200		-2100
- 880		-2100
-1050		-2050
- 580		-1950
-1150		-2000
-1000		-1950
-1750		-1000
-2050		-1200
-2150	Returned to GS 210	-1500
		-1500
<u>Line 13</u>		-1450
-1000		-1550
- 780		-1550
- 840		-1350
- 820		-1500
- 700		-1400
- 760		-1500
- 860		-1250
-1400		-1550
-1650		-1300

Gravity Station 527

083

863084

-1500		-1050
-1550		-1100
-1400		-1050
-1500		-1100
-1500		-1050
-1500		-1000
-1500	Gravity Station 528	- 980
-1500		-1100
-1500		-1100
-1500		-1100
-1500		-1000
-1450		-1050
-1450		-1100
-1350		-1050
-1200		-1000
-1300		-1000
-1100		- 950
-1150		- 970
-1050		-1050
-1100		-1050
-1200		-1000
-1200		-1000
-1200		-1100
-1200		- 950
-1200		-1000
-1200		-1000
-1100		- 950
-1100		-1050
-1200		-1050
-1100		-1050
-1200	Gravity Station 529	-1050
-1150		- 960
-1100		-1150
-1100		-1050
-1100		-1100
-1000		-1100

Gravity Station 530

086

863085

-1050

-1150

-1150

-1100

-1150 Gravity Station 531

-1200

-1300

-1300

-1400

-1450

-1450

-1450 Gravity Station 532

-1500

-1500

087

863086

Southport Lagoon Road

-1500	Road	-1550	
-1500		-1550	
-1450		-1500	
-1500		-1500	
-1500		-1550	
-1500		-1600	
-1500		-1550	
-1500		-1550	
-1500		-1550	
-1500		-1500	
-1500		-1500	
-1450		-1550	
-1500		-1650	
-1550	Gravity Station 309	-1550	
-1450		-1550	
-1450		-1550	
-1400		-1550	
-1500		-1600	
-1500		-1500	
-1550		-1550	
-1600		-1550	
-1600		-1550	
-1600		-1600	Gravity Station 311
-1550		-1550	
-1550		-1550	
-1500		-1550	
-1500		-1550	
-1500		-1550	
-1550		-1500	
-1750		-1550	
-1600		-1550	
-1500		-1600	
-1500		-1600	
-1550		-1550	
-1600		-1650	
-1500		-1550	
-1600	Gravity Station 310	-1550	

-1550		-1100
-1550		-1100
-1550		-1100
-1600		-1050
-1600		- 950
-1600		-1300
-1550		-1150
-1700		-1250
-1600	Gravity Station 312	-1300
-1650		-1300
-1700		-1300
-1600		-1150
-1600		-1250
-1600		-1200
-1650		-1150
-1700		-1200
-1700		-1300
-1700		-1350
-1700		-1350
-1700		-1250
-1700		-1200
-1700		-1250
-1750		-1300
-1750		-1250
-1750		-1250
-1750		-1200
-1700		-1200
-1400		-1500
-1400		-1450
-1400		-1300
-1400		-1450
-1300		-1850
-1300	Gravity Station 313	-1400
-1350		-1350
-1250		-1400
-1150		-1000

Gravity Station 314

08

-1450		-1450
-1100		-1450
- 750		-1500
-1600		-1500
-1400		-1550
-1100		-1500
-1350		-1500
-1650	Gravity Station 315	-1450
-1300		-1500
-1500		-1500
-1400		-1500
-1350		-1500
-1450		-1500
-1350		-1600
-1350		-1600
-1350		-1600
-1400		-1600
-1450		-1650
-1400		-1700
-1400		-1700
-1400		-1700
-1350		-1500
-1500		-1600
-1500		-1550
-1600		-1550
-1450		-1400
-1450		- 200
-1450		-1400
-1400		- 850
-1200	Gravity Station 316	- 140
-1400		- 200
-1500		-1000
-1500		- 930
-1500		-1300
-1500		-1050
-1450		-1050

Gravity Station 317

090

-1250	Gravity Station 318	-1050
-1250		- 820
-1300		-1500
-1350		-1450
-1450		-1400
-1250		-1700
-1250		-1700
-1200		-1550
-1300		-1500
-1300		-2100
-1200		-2050
-1300		-2000
-1350		-1600
-1450		-1500
-1500		-1750
-1450		-1500
-1400		-1400
-1400		-1000
-1550		-1050
-1450		-1450
-1350		-1650
-1200		-1500
-1300		-1250
-1400	Gravity Station 319	-1550
-1250		-2050
-1350		-1400
-1250		-1150
-1250		-1000
-1050		-1100
-1550		-1350
-1650		-1350
-1550		-1450
-1300		-1100
-1400		-1250
-1200		- 840
-1100		-1000
-1000		-1000

Gravity Station 320

16

-1100		+2450	
-1050		+ 100	
- 950		+1000	
-1000		+2250	Gravity Station 680
-1050		+6900	
- 750		+ 750	
- 720		- 550	
- 520		+1100	
- 380		- 560	
- 700	Gravity Station 321	-1600	
	Water's edge	+ 100	
<u>Line 11</u>			
Friday, May 15, 1981			
-2300	Gravity Station 224	-1550	
-1500		-2350	
-1450		-3100	
-1700		-2450	
-1900		-2350	
-2100		-2250	
-2150		-1950	
-1700		-1700	
-1650		-1450	
-1950		-1450	
-2400		-1450	
-2300		-1300	
-2300		- 980	
-2250		-1000	
-2050		-1150	
-1500		-1000	Gravity Station 681
-1900		-1100	
-1450		-1100	
-1150		-1050	
- 880		- 830	
-1500		- 880	
+ 380		-1000	
		- 700	
		- 550	
		- 300	

- 560		-1100	Gravity Station 683
- 940		-1350	
-1050		-1450	
- 900		-1600	
- 820		-1650	
- 900		-1750	
- 720		-1850	
- 900		-1950	
-1100		-2050	
- 950		-2000	
-1150		-2000	
-1200		-1950	
-1200		-1900	
-1100	Gravity Station 682	-1750	
-1150		-1650	
-1200		-1700	
-1300		-1700	
- 800		-1750	
- 930		-1700	
-1150		-1700	
-1100		-1700	
-1200		-1550	
-1300		-1600	
-1400		-1560	
-1150		-1600	Gravity Station 684
-1200		-1750	
-1200		-1450	
-1300		-1600	
-1250		-1500	
-1300		-1500	
-1150		-1550	
- 950		-1650	
-1000		-1600	
-1150		-1650	
-1200		-1550	
		-1550	
		-1550	Gravity Station 685

092

09.

863092

Indicate  
Please →

Line 12

-2300	Gravity Station 224	- 530
-1350		- 180
-1200		+ 20
- 320		- 270
-1700		- 400
-1750		- 660
-1700		- 770
-1550		- 760
-1400		- 730
-1150		- 660
-1900		- 640
-1650		- 750
-1450		- 820
-1450		- 890
-1650		- 900
-1400		- 870
-1500		- 890
-1750		- 930
-1800		- 850
-1900		- 930
-1900		- 780
-1650		- 720
-1500		- 710
-1450		- 620
-1150		- 580
-1200		- 640
-1200	Gravity Station 540	- 620
-1050		- 580
-1000		- 620
- 940		- 630
- 920		- 620
- 710		- 560
- 850		- 600
- 730		- 600
- 780		- 550

Gravity Station 541

- 640		-1200	
- 630		-1200	
- 660		-1200	
- 700	Gravity Station 542	-1150	
- 790		-1150	
- 720		-1100	
- 810		-1150	
- 810		-1100	
- 780		-1050	
- 820	Gravity Station 531	-1050	River
- 860			
- 900			
- 940			
- 970			
-1000			
-1100			
-1100			
-1150			
-1100			
-1200			
-1200			
-1250			
-1200			
-1250			
-1200			
-1200			
-1250			
-1200	Gravity Station 543		
-1250			
-1250			
-1250			
-1200			
-1200			
-1200			
-1200			

095

863094

Tuesday 12/5/81

Line 9

-1250	Gravity Station 59	-1100	
-1250		-1050	
-1450		-1350	
-1300		-1200	
-1450		-1250	
-1400		-1300	
-1450		-1300	
-1400		-1250	
-1450		-1350	
-1500		-1250	
-1400		-1250	
-1450		-1200	
-1500		-1200	
-1550		-1200	
-1150		-1150	
-1400		-1100	Gravity Station 534
-1400		-1100	
-1250		-1000	
-1200		-1050	
-1150		-1050	
-1450		- 980	
-1500		- 940	
-1500		-1100	
-1400		- 900	
-1250		-1000	
-1250	Gravity Station 533	- 950	
-1150		-1000	
-1250		-1000	
-1300		-1100	
-1450		-1250	
-1350		-1000	
-1300		-1050	
-1250		-1250	
-1250		-1100	

-1100  
 -1050  
 -1150  
 -1100  
 -1100  
 -1200  
 -1250  
 -1250  
 -1100  
 -1300  
 -1300  
 -1250  
 -1250  
 -1200  
 -1200  
 -1250  
 -1200  
 -1200  
 -1250  
 -1200  
 -1250  
 -1200  
 - 940  
 -1150  
 - 960  
 -1050  
 -1050  
 - 910  
 - 680  
 - 660  
 - 660  
 - 810  
 - 460  
 - 550  
 - 650  
 - 510  
 - 610  
 - 760  
 - 790

Gravity Station 535

Gravity Station 536

- 840  
 - 860  
 - 700  
 - 760  
 - 920  
 - 900  
 - 920  
 - 950  
 - 960  
 -1000  
 -1100  
 -1050  
 -1200  
 - 950  
 -1100  
 -1100  
 -1300  
 -1200  
 -1450  
 -1300  
 -1400  
 -1300  
 -1300  
 -1150  
 -1250  
 -1250  
 -1250  
 -1450  
 -1400  
 -1500  
 -1600  
 -1500  
 -1300  
 -1300  
 -1300  
 -1300  
 -1300

Gravity Station 537

-1450  
 -1600  
 -1450  
 -1250  
 -1150  
 -1350  
 -1400  
 -1100  
 - 820  
 -1350  
 - 840  
 + 160  
 - 740  
 - 800  
 -1200  
 -1000  
 -1000  
 -1100  
 -1000  
 - 940  
 - 740  
 - 510  
 - 760  
 -1100  
 -1200  
 -1050  
 -1200  
 - 950  
 -1050  
 -1300  
 -1250  
 -1200  
 -1200  
 -1250  
 -1100  
 -1300

Gravity Station 538

-1450  
 -1300  
 -1400  
 -1250  
 - 910  
 -1650  
 + 880  
 +3800  
 - 750  
 -1100  
 -1250  
 -1300  
 -1600  
 -1600  
 -1600  
 -1500  
 -1700  
 -2050  
 -2050

Gravity Station 539

High water mark

Line 14

-1800	Gravity Station 25	-1600	
-1700		-1500	
-1700		- 500	
-1750		- 320	
-1700		- 920	
-1800		- 390	
-1700		+ 640	
-1450		- 940	
-1650		-1050	
-1650		-1100	
- 560		-1250	
-1650		-1300	
-1600		-1400	
-1700		-1500	
-1750		-1400	
-1750		-1500	Gravity Station 548
-1850		-1450	
-1750		-1600	
-1700		-1600	
-1750		-1600	
-1800		-1600	
-1900		-1500	
-1850		-1600	
-1550		-1650	
-1450		-1700	
-1550		-1700	
-1750		-1650	
-1650		-1600	
-1750	Gravity Station 547	-1650	
-1900		-1600	
-1950		-1650	
-1900		-1600	
-2050		-1600	
-2200		-1650	
-2850		-1500	
-1600		-1500	

-1700		-1500
-1700		-1400
-1650	Gravity Station 549	-1500
-1650		-1500
-1800		-1550
-1650		-1500
-1600		-1450
-1650		-1450
-1650		-1500
-1650		-1500
-1650		-1550
-1600		-1400
-1500		-1500
-1450		-1400
-1500		-1400
-1500		-1400
-1500		-1150
-2750		-1500
-1250		-1500
-1700		-1600
-1550		-1500
-1600		-1550
-1650		-1600
-1600		-1650
-1550		-1650
-1650		-1750
-1600	Gravity Station 550	-1650
-1450		-1700
-1550		-1700
-1500		-1800
-1600		-1650
-1600		-1700
-1450		-1700
-1500		-1650
-1450		-1800
-1600		-1800

Gravity Station 551

-1750		-1650	
-1800		-1750	
-1800		-1700	
-1800	Gravity Station 552	-1800	
-1750		-1800	
-1800		-1800	
-1750		-1800	
-1800		-1800	
-1800		-1800	
-1850		-1800	
-1700		-1750	
-1900		-1850	
-1850		-1800	
-1900		-1850	Gravity Station 555
-1800		-1750	
-1800		-1850	
-1800		-1750	
-1800		-1750	
-1900		-1800	
-1800		-1850	
-1850		-1800	
-1750		-1800	
-1800		-1900	
-1750		-1750	
-1700		-1850	
-1800		-1900	
-1750	Gravity Station 553	-1800	
-1800		-1950	
-1800		-1900	
-1650		-1950	
-1700		-2000	Gravity Station 556
-1750			End of Bulldoze track.
-1700			
-1800			
-1800			
-1800	Gravity Station 554		

Line 1 (From West)

-1750		-1700
-1800		-1700
-1850		-1800
-1800		-1750
-1750		-1700
-1850		-1750
-1850		-1650
-1900		-1700
-1850		-1600
-1800		-1700
-1800		-1850
-1800		-1800
-1850	Gravity Station 557	-1450
-1800		-1750
-1850		-1700
-1750		-1700
-1750		-1700
-1650		-1750
-1850		-1750
-1750		-1800
-1850		-1850
-1850		-1700
-1750		-1800
-1850		-1900
-1850		-1850
-1800		-1750
-1850		-1700
-1800		-1800
-1750		-1800
-1750		-1700
-1750		-1800
-1850		-1400
-1800		-1650
-1700		-1650
-1700		-1650
-1750		-1850

Gravity Station 554

Gravity Station 559

-1800		-1850
-1850		-1800
-1800		-1750
-1800		-1650
-1600		-1650
-1850		-1400
-1800		-1300
-1850		-1200
-1850		-1150
-1900		-1200
-1900		-1200
-1700		-1100
-1900		-1350
-1900		-1450
-1950		-1350
-1850		-1150
-1750		- 540
-1900		-1450
-1900		-1200
-1950		-1400
-1900		-1100
-1800		- 840
-1950	Gravity Station 560	- 980
-1600		-1900
-1900		-3700
-1900		-4000
-1900		-4000
-1650		-4500
-1850		-2100
-1900		- 950
-1900		-1550
-1900		-1300
-1900		- 100
-1700		+ 880
-1950		- 520
-1850		-1050
-1850		-1800

Gravity Station 561

-1100		-1000	250m
- 680		-1050	
- 540		-1030	
- 750		-1000	
- 390		-1050	
- 860	Gravity Station 18	-1000	

Line 10

Wednesday 13th April, 1981

- 920		-1000	
- 860		-1000	
- 880		-1000	
- 860		-1000	
- 800		-1000	
- 750		- 940	
- 700		-1050	
- 760		-1000	
- 840		- 980	
- 930		-1000	
-1000		- 950	
-1000		-1050	500m
-1050		-1050	
-1070		-1000	
-1100		-1020	
-1100		-1000	
-1100		-1050	
-1080		-1000	
-1100		- 960	
-1100		-1050	
-1050		- 910	
-1050		-1050	
-1050		- 900	
-1050		-1050	
-1050		-1200	

-1050		-1000
- 740		-1050
-1200		-1100
-1150		-1100
-1100		-1100
-1150		-1050
-1100		-1000
-1100		-1000
-1150		-1000
- 760		- 960
-1050		- 950
-1050		- 910
-1100		- 880
-1000		- 860
- 900		- 790
- 900		- 540
- 900		- 440
-1000	750m	- 590
- 950		- 650
- 880		- 700
- 860		- 740
-1150		- 600
-1100		- 740
-1000		- 760
-1100		- 680
-1050		- 780
- 930		- 620
- 960		- 790
- 990		- 830
-1000		- 820
-1000		- 920
-1000		- 740
- 970		- 850
- 970		- 850
- 950		- 900
-1000		- 900

1000m

1250m

- 540		-1450	
- 660		-1400	
- 760		-1450	1350m
- 600		-1400	
-1000		-1400	
- 660		-1400	
- 680		-1400	
- 680		-1400	
- 660		-1400	
- 740		-1350	
- 960		-1350	
- 940		-1400	
-1150		-1350	
-1400	1500m	-1350	
-1550		-1350	
-1600		-1350	
-1650		-1350	
-1650		-1350	
-1700		-1350	
-1700		-1350	
-1700		-1350	
-1600		-1350	
-1600		-1350	
-1600		-1350	
-1500		-1350	
-1550		-1300	
-1600		-1300	2000m
-1450		-1300	
-1500		-1300	
-1550		-1300	
-1500		-1300	
-1500		-1300	
-1500		-1300	
-1500		-1300	
-1500		-1300	
-1450		-1300	
-1450		-1250	



Line 4

Thursday, 14th May, 1981.

-1400	Gravity Station 44	-1100	
-1500		-1250	
- 880		-1200	
-1100		-1350	
-1100		-1400	
-1050		-1400	
-1100		-1300	
-1100		-1100	
-1150		- 740	
-1100		- 950	
-1350		-1050	
-1200		-1100	
-1150		-1100	
-1100		-1150	
-1150		-1150	500m
-1200		-1250	
-1150		-1300	
-1150		-1300	
-1150		-1350	
-1100		-1250	
-1150		-1100	
-1150		- 930	
-1150		-1000	
-1150		-1100	
-1100		-1150	
- 960		-1200	
- 980	250m	-1200	
-1450		-1150	
-1250		-1100	
-1250		-1100	
-1200		-1050	
-1250		-1050	
-1250		- 930	
-1300		-1000	
-1200		- 880	

- 370		- 900
- 320		- 900
- 800		- 870
- 900		- 850
-1500	750m	- 900
-1700		- 840
-1750		- 850
-1550	Gravity Station 70	- 830
-1500		- 820
-1350		- 830
-1600		- 790
-1350		- 800
-1300		- 810
-1250		- 820
-1300		- 780
-1250		- 780
-1200		- 780
-1200		- 720
-1150		- 680
-1150		- 620
-1100		- 660
-1100		- 660
-1050		- 640
-1050		- 720
-1000		- 800
-1050		- 860
-1000		- 920
- 960		-1000
-1000		-1000
- 960		- 950
- 980	1000m	- 930
- 980		- 840
- 960		- 820
- 960		- 770
- 930		- 680

1250m

- 810		- 790
- 800		- 940
-1000		-1000
-1050		-1000
-1000		-1000
- 920		-1000
- 620		-1000
+ 140		-1150
- 340		-1200
- 500		-1650
- 440	1500m	-1700
- 880		-1700
-1000		-1700
-1000		-1700
-1050		-1700
- 950		-1700
- 940		-1650
- 960		-1700
-1000		-1650
-1100		-1650
-1250		-1660
-1300		-1600
-1300		-1600
-1350		-1600
-1350		-1600
-1350		-1550
-1350		-1550
-1400		-1550
-1400		-1500
-1300		-1550
-1250		-1500
-1150		-1550
-1050		-1550
- 750		-1500
- 510	1750m	-1550
- 400		-1500

2000m



-1320

-1350

-1320

-1350

-1320

-1300

-1350

-1320

-1350

-1300

-1350

-1350

-1350

3000m

12

863111

A.M.P. Place  
10 Eagle Street,  
Brisbane, Queensland 4000  
Telex AA43043  
Cable MARATOIL Brisbane  
Telephone (07) 221 1283



**Marathon  
Petroleum Australia, Ltd.**

Postal Address:  
G.P.O. Box 687, Brisbane 4001

1 March, 1982.

Mr. H. Murchie,  
Director of Mines,  
Department of Mines,  
G.P.O. Box 124B,  
HOBART,  
Tasmania, 7001.

Dept of M	REG	E.O.	D. M. E.
Received	5 MAR 1982		Registrar
Answered	DEPT. OF MINES		E & IL
REF. No. 1651/82			✓

262.  
RA

Dear Sir,

Re: Exploration Licence 6/79 - Your letter of 15 February 1982

Enclosed please find copies of original data as supplied to us by BMR and Layton Geophysical International. In addition, terrain corrections at a density of 2.35 for all Layton and selected BMR stations as supplied to us by Leaman Geophysics.

MPAL has attempted to computerize this data, however, the output contained systematic errors and has been scrapped. If further computer work is done a copy of the output will be provided with the appropriate report.

Yours faithfully,  
MARATHON PETROLEUM AUSTRALIA LTD.

*W.R. Barbour*

W.R. Barbour

Encls.

81-1639

Gravity Survey - Lune River Tasmania

The following are the missing gravity stations left off the printout and map.

St. No.	Latitude and Longitude	Gravity	B/A
0181		980495.87	10.28
0182		980498.25	11.58
0188	Not Found		
0215	Not Read		
0216	Not Read		
0263	Not Read		
0266			3.84
0291			5.07
0322	43.5525 <sup>o</sup> 145.8603 <sup>o</sup>		19.25
0323	43.5532 <sup>o</sup> 145.8581 <sup>o</sup>		19.22
0324	43.5520 <sup>o</sup> 145.8559 <sup>o</sup>		19.36
0325	43.5518 <sup>o</sup> 145.8547 <sup>o</sup>		19.19
0374			7.67
0409	Not Read - Swamps		
0418	Not Read		

Gravity Station at Dover Hotel 980,489.20 mgals  
no latitude, longitude, elevation and B/A.

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ENCLOSURE ONE: TERRAIN CORRECTIONS FOR THE LAYTON STATIONS

The average terrain correction is about 0.50 mgal at density 2.35 which means that 1 mgal contours are not justified unless the correction is applied. This was bad practice on the part of the contractor. Note also that the effect for the first 250 metres or so is in the range 0.01 to 0.55 mgal (generally 0.06 - 0.17 mgal) but that the range for radii from 250 m to 20 km is 0.06 to 1.05 mgal (generally more than 0.3 mgal). Only in the last zone calculated (14-20 km) do the differences across the area become minor. The impact of topography at 3 - 14 km is critical and certainly cannot be ignored.

The above comments apply only to the stations observed even though it was noted during computation that some sites which could have been occupied within the area have corrections in excess of 4 mgal. Most stations which were liable to produce errors within the first 150 m have been inspected in lieu of absence of field notes. The error is believed to be of the order of  $\pm 3\%$  overall as tested by repeated, graticule-rotated random checks. With the corrections applied the RMS error for the Bouguer anomalies should not exceed 0.2 - 0.25 mgal on any data point and will normally be about half this. (The RMS error allows for loop misclosures, elevations, drift, position errors as well).

station	Terr corr	station	terr corr	station	terr corr
1	0.54	25	0.64	49	0.58
2	0.55	26	0.61	50	0.59
3	0.56	27	0.58	51	0.64
4	0.56	28	0.61	52	0.75
5	0.57	29	0.63	53	0.89
6	0.56	30	0.63	54	0.87
7	0.56	31	0.62	55	0.87
8	0.56	32	0.61	56	0.82
9	0.59	33	0.58	57	0.72
10	0.64	34	0.48	58	0.69
11	0.71	35	0.47	59	0.64
12	0.76	36	0.46	60	0.62
13	0.78	37	0.46	61	0.58
14	0.85	38	0.42	62	0.54
15	0.86	39	0.42	63	0.54
16	0.93	40	0.44	64	0.43
17	0.96	41	0.53	65	0.38
18	0.97	42	0.51	66	0.35
19	0.93	43	0.51	67	0.32
20	0.83	44	0.58	68	0.27
21	0.72	45	0.57	69	0.24
22	0.68	46	0.61	70	0.22
23	0.70	47	0.49	71	0.23
24	0.68	48	0.57	72	0.22

station	Terr corr	station	Terr corr	station	Terr corr
73	0.23	109	0.22	145	0.39
74	0.22	110	0.23	146	0.40
75	0.23	111	0.19	147	0.43
76	0.23	112	0.19	148	0.45
77	0.28	113	0.15	149	0.44
78	0.34	114	0.14	150	0.44
79	0.34	115	0.15	151	0.45
80	0.30	116	0.16	152	0.47
81	0.27	117	0.23	153	0.48
82	0.25	118	0.25	154	0.49
83	0.32	119	0.42	155	0.50
84	0.43	120	0.41	156	0.51
85	0.88	121	0.42	157	0.56
86	1.11	122	0.45	158	0.61
87	1.15	123	0.40	159	0.65
88	1.16	124	0.47	160	0.69
89	1.15	125	0.26	161	0.70
90	1.05	126	0.30	162	0.70
91	0.82	127	0.34	163	0.50
92	0.90	128	0.30	164	0.54
93	0.42	129	0.28	165	0.58
94	0.29	130	0.28	166	0.67
95	0.30	131	0.26	167	0.75
96	0.28	132	0.25	168	0.85
97	0.27	133	0.26	169	0.70
98	0.27	134	0.26	170	0.68
99	0.28	135	0.23	171	0.79
100	0.27	136	0.24	172	0.84
101	0.26	137	0.21	173	0.90
102	0.24	138	0.21	174	1.02
103	0.23	139	0.23	175	1.10
104	0.24	140	0.26	176	0.48
105	0.24	141	0.28	177	0.42
106	0.24	142	0.31	178	0.38
107	0.24	143	0.34	179	0.37
108	0.23	144	0.35	180	0.38

station	Terr corr	station	Terr corr	station	Terr corr
181	0.40	219	0.21	247	0.23
182	0.38	220	0.22	248	0.57
183	0.35	221	0.23	249	0.55
184	0.29	222	0.28	250	0.54
185	0.26	223	0.30	251	0.51
186	0.21	224	0.39	252	0.48
187	0.19	225	0.22	253	0.43
188	0.19	226	0.23	254	0.41
189	0.20	227	0.25	255	0.39
190	0.17	228	0.25	256	<del>0.33</del>
191	0.19	229	0.25	257	0.34
192	0.20	230	0.29	258	0.36
193	0.21	231	0.34	259	0.40
194	0.20	232	0.32	260	0.43
195	0.21	233	0.27	261	0.48
196	0.20	234	0.34	262	0.51
197	0.21	235	0.36	263	0.55
198	0.23	236	0.44	264	0.59****
199	0.26	237	0.50	265	n.s. <sup>94</sup>
200	0.71	238	0.53	266	0.84 <i>in file with 2-67</i>
201	0.78	239	0.47	267	0.85
202	0.87	240	0.19	268	0.89
203	0.84	241	0.19	269	0.92
204	0.81	242	0.21	270	1.01
205	0.58	243	0.23	271	1.11
206	0.76	244	0.25	272	0.96
207	0.78	245	0.24	273	0.93
208	0.76	246	0.23	274	0.85
209	0.64	<del>247xxxxxxxxx23</del>		275	0.84
210	0.56	<del>248xxxxxxxxx57</del>		276	n.s.
211	0.36	<del>249xxxxxxxxx55</del>		277	0.55
212	0.28	<del>250</del>		278	0.46
213	0.28			279	0.41
214	0.28	n.s. = no station		280	0.38
215	n.s.	**** see note re		281	0.37
216	n.s.	stations 264/265		282	0.37
217	0.22	in enclosure six.		283	0.37
218	0.21			284	0.37

station	Terr corr	station	Terr corr	station	Terr corr
285	0.37	323	0.42	361	0.22
286	0.37	324	0.47	362	0.27
287	0.43	325	0.49	363	0.22
288	0.50	326	0.19	364	0.21
289	0.63	327	0.15	365	0.26
290	0.86	328	0.15	366	0.21
291	1.10	329	0.18	367	0.25
292	1.60	330	0.19	368	0.21
293	1.52	331	0.20	369	0.18
294	1.55	332	0.21	370	0.16
295	1.32	333	0.22	371	0.22
296	1.28	334	0.23	372	0.32
297	1.12	335	0.21	373	0.37
298	0.98	336	0.16	374	0.44
299	0.96	337	0.18	375	0.32
300	0.84	338	0.15	376	0.28
301	0.65	339	0.14	377	0.23
302	0.58	340	0.14	378	0.22
303	0.54	341	0.13	379	0.22
304	0.48	342	0.16	380	0.23
305	0.61	343	0.09	381	0.30
306	0.64	344	0.13	382	0.31
307	0.66	345	0.16	383	0.35
308	0.77	346	0.17	384	0.42
309	0.20	347	0.21	385	0.45
310	0.20	348	0.19	386	0.39
311	0.20	349	0.26	387	0.33
312	0.19	350	0.26	388	0.30
313	0.18	351	0.23	389	0.39
314	0.18	352	0.23	390	0.28
315	0.19	353	0.20	391	0.19
316	0.16	354	0.15	392	0.22
317	0.15	355	0.13	393	0.26
318	0.14	356	0.12	394	0.28
319	0.13	357	0.09	395	0.31
320	0.12	358	0.19	396	0.35
321	0.12	359	0.20	397	0.34
322	0.36	360	0.23	398	0.37

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station	Terr corr
399	0.45
400	0.41
401	0.35
402	0.34
403	0.30
404	0.26
405	0.23
406	0.23
407	0.30
408	0.36
409	0.42
410	0.41
411	0.24
412	0.28
413	0.26
414	0.24
415	0.28
416	0.28
417	0.33
418	n.s.
419	0.42
420	0.36
421	0.23
422	0.23
423	0.34
424	0.56
425	0.45

End of listing; terrain corrections  
for Layton data, Catamaran, Tasmania

TERRAIN CORRECTIONS: CATAMARAN GRAVITY SURVEY, PART TWO

The following corrections are calculated for a density of  $2.35 \text{ t/m}^3$ .

station	terr.corr	station	terr.corr	station	terr.corr
500	0.21	533	0.43	566	0.68
501	0.21	534	0.37	567	0.70
502	0.19	535	0.34	568	0.73
503	0.19	536	0.29	569	0.09
504	0.16	537	0.26	570	0.13
505	0.14	538	0.23	571	0.11
506	0.16	539	0.20	572	0.15
507	0.16	540	0.38	573	0.16
508	0.16	541	0.42	574	0.16
509	0.14	542	0.42	575	0.21
510	0.14	543	0.45	576	0.14
511	0.15	544	0.43	577	0.14
512	0.15	545	0.38	578	0.17
513	0.46	546	0.37	579	0.17
514	0.54	547	0.63	580	0.20
515	0.51	548	0.73	581	0.17
516	0.51	549	1.06	582	0.15
517	0.43	550	1.40	583	0.14
518	0.35	551	1.64	584	0.15
519	0.30	552	2.05	585	0.20
520	0.23	553	2.64	586	0.25
521	0.24	554	2.88	587	0.25
522	0.53	555	2.93	588	0.20
523	0.53	556	3.03	589	0.07
524	0.52	557	2.70	590	0.08
525	0.52	558	2.33	591	0.09
526	0.52	559	1.18	592	0.08
527	0.21	560	1.07	593	0.09
528	0.23	561	1.00	594	0.09
529	0.28	562	0.60	595	0.10
530	0.36	563	0.60	596	0.13
531	0.44	564	0.63	597	0.15
532	0.44	565	0.67	598	0.15

120

863119

station	terr.corr	station	terr.corr	station	terr.corr
599	0.14	636	0.30	673	1.01
600	0.17	637	0.55	674	1.04
601	0.13	638	0.53	675	0.95
602	0.11	639	0.63	676	1.08
603		640	0.66	677	1.12
604	0.13	641	1.72	678	1.14
605	0.11	642	0.87	679	1.09
606		643	0.49	680	0.46
607	0.08	644	0.48	681	0.36
608	0.08	645	0.39	682	0.37
609		646	0.15	683	0.37
610	0.10	647	0.14	684	0.29
611	0.13	648	0.20	685	0.29
612	0.11	649	0.23	686	
613	0.08	650	0.29	687	0.78
614	0.09	651	0.37	688	<i>new omitted</i>
615	0.11	652	0.73	689	0.86
616	0.14	653	0.79	690	0.86
617	0.16	654	0.78	691	0.71
618	0.18	655	0.84	692	0.60
619	0.15	656	0.91	693	0.63
620	0.21	657	0.90	694	0.37
621	0.20	658	0.91	695	0.24
622	0.23	659	0.92	696	0.22
623	0.17	660	0.90	697	0.21
624	0.17	661	0.85	698	0.21
625	0.11	662	0.83	699	0.17
626	0.11	663	0.79	700	0.13
627	0.07	664	0.63	701	0.11
628	0.11	665	0.46	702	0.26
629	0.14	666	0.52	703	0.25
630	0.15	667	0.62	704	0.65
631	0.13	668	0.63	705	0.64
632	0.20	669	0.73	706	1.11
633	0.20	670	0.74	707	2.21
634	0.18	671	0.84	708	1.75
635	0.21	672	0.83	709	0.70

- 5 -

station	terr.corr
710	0.56
711	0.62
712	0.44
713	0.34
714	0.79
715	0.86
216	0.34

## BMR file stations

7303 code

2890	1.40
2891	0.23
2900	4.06
2901	2.20
2902	0.22
2909	1.72
2910	0.15
2916	0.64
2917	0.36
9288	0.30
9289	0.21
<u>6750</u> code	
5101	0.22
5102	0.12
5103	0.18
5104	0.32
5105	0.24
5106	0.23
5107	0.23
5108	0.40
5110	0.19

Note: Some stations not found.

Some others were not clearly or correctly labelled(?).  
624 is presumed to lie between 617 and 629. (marked 634)

558 is presumed to lie west of 557 (marked 552)

645 is presumed to lie between 146 and 692 (marked 640)

675 is presumed to lie between 658 and 676 (marked 625)

657 is presumed to lie between 656 and 676 (marked 651)

655 is presumed to lie between 654 and 656 (marked 653) I have presumed the run of these numbers to be 59, 652, 653, 654, 655, 656, 657, 676 up the hill.

Stations 603, 606 and 609 presumably lie in the region of Southport Bluff. Values for their terrain corrections could be interpolated from others nearby with little error due to low relief.



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\* DESCRIPTION OF THIS TAPE \*

RECORD TYPE - BUFFERED BINARY WITH 512 60-BIT WORDS/RECORD

DATUM USED -

- 1. STATION NUMBER - 8 DIGIT FLOATING POINT
- 2. POSITION UNITS - DECIMAL DEGREES
- 3. ELEVATION UNITS - METRES ABOVE M.S.L.
- 4. ELEVATION DATUM - DATUM UNDEFINED
- 5. GRAVITY UNITS - MILLIGALS
- 6. GRAVITY DATUM - OLD POTSDAM DATUM

863122

AUSTRALIAN GRAVITY DATA

1981/03/05

SOUTHEAST TASMANIA DATA

DATUM = DM MD

1981/03/05

BMP STATION NUMBER	LATITUDE SOUTH (DEGREES)	LONGITUDE EAST (DEGREES)	METER ELEVATION (METRES)	OBSERVED GRAVITY (MGAL)	GROUND ELEVATION (METRES)	TERRAIN CORRECTION FOR 2.67	FREE AIR ANOMALY (MGAL)	BOUGUER ANOMALY FOR 2.67	INFORMAL STATION NAME, NUMBER, BENCHMARK, ETC.	LAST DATE STATION UPDATED
6650.0050	43.3653	147.2213	0.00	980503.12	0.00	.01	21.20	21.22T	66225 50827 000000J9	1972/11/04
6650.0051	43.4222	147.2006	0.00	980510.14	0.00	-.01	23.10	23.09T	65536 50635 000000M5	..
6650.0052	43.3700	147.3408	0.00	980509.17	0.00	*****	26.83	26.83	66150 51930 000000R,	..
6750.5101	43.4148	146.9173	1.52	980501.52	1.52	0.00	15.61	15.40T	65657 48126 000000H8	..
6750.5102	43.4333	146.9744	1.37	980505.81	1.37	*****	18.19	18.03	65427 48623 0000000=	..
6750.5103	43.4018	147.0174	.30	980501.92	.30	*****	16.81	16.77	65005 49010 0000000<	..
6750.5104	43.4330	146.9070	0.00	980501.08	0.00	*****	13.06	13.06	65437 48032 0000000<	..
6750.5105	43.5227	146.9015	0.00	980512.58	0.00	*****	16.48	16.48	64300 47971 0000000I	..
6750.5106	43.5368	146.8903	0.00	980514.33	0.00	0.00	16.96	16.96T	64178 47870 0000000<	..
6750.5107	43.5507	146.8873	.91	980521.09	.91	-.01	22.75	22.64T	64009 47842 000000LH	..
6750.5108	43.5690	146.8843	0.00	980523.98	0.00	-.01	23.71	23.69T	63707 47848 000000N2	..
6750.5109	43.3838	146.8413	143.26	980460.10	143.26	*****	20.82	4.79	66041 47456 0000007~	..
6750.5110	43.4477	146.9545	0.00	980507.16	0.00	.01	17.82	17.84T	65255 48485 0000000X	..
6850.2078	43.6227	146.8395	.46	980531.48	.46	0.00	26.51	26.46T	63140 47010 000000RF	..
6850.2079	43.6080	146.8132	.30	980528.92	.30	0.00	25.22	25.19T	63320 47180 000000PG	..
6867.0508	43.3647	147.4906	0.00	980527.66	*****	*****	45.80		EEL34 63315	M 1979/02/26
6867.0508	43.4277	147.5106	0.00	980533.54	*****	*****	46.00		EEL34 63229	M
6867.0509	43.4592	147.5146	0.00	980534.60	-81.00	*****	44.30	49.88	EEL34 63176	-1 M
6867.0509	43.5237	147.5276	0.00	980543.19	-98.00	*****	47.00	53.75	EEL34 63261	-1 M
6867.0509	43.5597	147.5305	0.00	980548.23	*****	*****	48.80		EEL34 63204	-1 M
6867.0510	43.5940	147.5330	0.00	980548.33	-113.00	*****	45.80	53.58	EEL34 63337	M
6867.0510	43.6256	147.5344	0.00	980549.18	*****	*****	43.80		EEL34 63290	-1 M
6867.0510	43.6572	147.5304	0.00	980552.22	-126.00	*****	44.00	52.67	EEL34 63378	M
6867.0510	43.6880	147.5423	0.00	980554.17	*****	*****	43.10		EEL34 63435	M
6867.0511	43.7205	147.5403	0.00	980557.23	-139.00	*****	43.30	52.87	EEL34 63322	-1 M
6867.0816	43.7147	147.4946	0.00	980540.91	-139.00	*****	27.50	37.07	EEL34	M
6867.0816	43.6810	147.4956	0.00	980540.87	*****	*****	30.50		EEL34 63360	M
6867.0816	43.6474	147.4947	0.00	980537.94	-122.00	*****	30.60	39.02	EEL34 63325	M
6867.0816	43.6137	147.4978	0.00	980540.90	*****	*****	36.60		EEL34 63404	M
6867.0817	43.5001	147.4908	0.00	980535.07	-107.00	*****	33.80	41.17	EEL34	M
6867.0818	43.4537	147.5071	0.00	980520.38	-75.00	*****	30.50	35.66	EEL34	M
6867.0818	43.4082	147.5041	0.00	980513.58	*****	*****	27.80		EEL34	M
6867.0818	43.3627	147.5052	0.00	980515.48	-73.00	*****	33.80	38.83	EEL34	M
6867.9102	43.3601	147.8101	0.00	980515.25	*****	*****	33.80		EEL34	M
6867.9102	43.3821	147.8446	0.00	980517.23	*****	*****	33.80		EEL34	M
6867.9103	43.4139	147.8943	0.00	980527.79	-130.00	*****	41.50	50.45	EEL34	M
6867.9103	43.4411	147.9472	0.00	980534.82	*****	*****	45.80		EEL34	M
6867.9103	43.4742	147.9900	0.00	980538.73	-225.00	*****	47.00	62.49	EEL34	M
6867.9104	43.4222	147.9307	0.00	980530.54	*****	*****	43.50		EEL34	M
6867.9105	43.4632	147.9959	0.00	980538.84	*****	*****	48.10		EEL34	M
6867.9105	43.4973	148.0400	0.00	980528.91	-699.00	*****	35.10	83.22	EEL34	M
6867.9105	43.5314	148.1002	0.00	980517.98	*****	*****	21.10		EEL34 63179	-1 M
6867.9106	43.5654	148.1523	0.00	980518.95	-1559.00	*****	19.00	126.32	EEL34 63185	-1 M
6867.9106	43.5986	148.2007	0.00	980525.34	*****	*****	22.40		EEL34 63163	-1 M
6867.9106	43.6281	148.2545	0.00	980510.50	-2142.00	*****	4.90	152.36	EEL34 63141	-1 M
6867.9106	43.6575	148.3123	0.00	980495.45	*****	*****	-12.80		EEL34 63197	-1 M
6867.9107	43.6772	148.3401	0.00	980484.73	*****	*****	-25.30		EEL34	M
6867.9107	43.7164	148.4107	0.00	980470.76	*****	*****	-42.80		EEL34	M
6867.9107	43.7457	148.0733	0.00	980471.70	-3753.00	*****	-44.50	213.86	EEL34 63222	-1 M
6867.9223	43.7326	147.9708	0.00	980537.82	*****	*****	22.80		EEL34 63202	-1 M

863123

AUSTRALIAN GRAVITY DATA

1981/03/05

SOUTHEAST TASMANIA DATA

DATUM = DM MO

1981/03/05

BMR STATION NUMBER.	LATITUDE SOUTH. (DEGREES)	LONGITUDE EAST. (DEGREES)	METER ELEVATION (METRES)	OBSERVED GRAVITY. (MGAL)	GROUND ELEVATION (METRES)	TERRAIN CORRECTION FOR 2.67	FREE AIR ANOMALY. (MGAL)	BOUGUER ANOMALY. FOR 2.67	INFORMAL STATION NAME, NUMBER, BENCHMARK, ETC.	LAST DATE STATION UPDATED
6867.9300	43.6825	147.9795	0.00	980539.80	-936.00	*****	29.30	93.74	EEL34 63237 -1	M 1979/02/26
6867.9300	43.6325	147.9792	0.00	980542.80	*****	*****	36.80		EEL34 63229 -1	M ..
6867.9300	43.5824	147.9788	0.00	980545.78	-452.00	*****	44.30	75.42	EEL34	M ..
6867.9300	43.5323	147.9785	0.00	980543.76	*****	*****	46.80		EEL34 63317	M ..
6867.9301	43.4822	147.9782	0.00	980540.75	-167.00	*****	48.30	59.80	EEL34 63118 -1	M ..
6867.9301	43.4488	147.9779	0.00	980537.74	*****	*****	48.30		EEL34	M ..
6867.9301	43.4136	147.9185	0.00	980529.77	-130.00	*****	43.50	52.45	EEL34 63133 -1	M ..
6867.9301	43.3932	147.8629	0.00	980526.93	*****	*****	42.50		EEL34 63123 -1	M ..
6867.9302	43.3728	147.8873	0.00	980521.89	-122.00	*****	39.30	47.70	EEL34 63078 -1	M ..
6867.9302	43.3524	147.7518	0.00	980521.85	*****	*****	41.10		EEL34	M ..
6867.9416	43.3672	147.4458	0.00	980511.09	*****	*****	29.00		EEL34	M ..
6867.9417	43.4161	147.4431	0.00	980513.09	-70.00	*****	26.60	31.42	EEL34	M ..
6867.9417	43.4584	147.4393	0.00	980523.60	*****	*****	33.30		EEL34 63192 -1	M ..
6867.9417	43.5015	147.4350	0.00	980531.99	-73.00	*****	37.80	42.83	EEL34 63338 -	M ..
6867.9417	43.5388	147.4311	0.00	980534.55	*****	*****	37.00		EEL34 63375	M ..
6867.9418	43.5762	147.4272	0.00	980536.52	-83.00	*****	35.60	41.31	EEL34 63285 -1	M ..
6867.9418	43.6136	147.4233	0.00	980543.59	*****	*****	39.30		EEL34 63320 -	M ..
6867.9418	43.6509	147.4194	0.00	980543.46	-118.00	*****	35.80	43.92	EEL34 63290 -1	M ..
6867.9418	43.6883	147.4155	0.00	980549.53	*****	*****	38.50		EEL34	M ..
6867.9419	43.7256	147.4116	0.00	980550.39	-137.00	*****	36.00	45.43	EEL34 63235 -2	M ..
6968.0221	43.7468	146.9439	0.00	980547.50	*****	*****	31.20		EEL39	M ..
6968.0222	43.7373	146.9676	0.00	980544.55	*****	*****	29.10		EEL39	M ..
6968.0222	43.7265	146.9248	0.00	980553.27	*****	*****	38.80		EEL39	M ..
6968.0222	43.7184	147.0151	0.00	980558.04	*****	*****	44.30		EEL39	M ..
6968.0222	43.6867	147.1044	0.00	980546.68	*****	*****	35.80		EEL39	M ..
6968.0222	43.6670	147.1615	0.00	980545.91	*****	*****	36.80		EEL39	M ..
6968.0223	43.6473	147.2186	0.00	980548.63	*****	*****	41.30		EEL39	M ..
6968.0223	43.6279	147.2748	0.00	980552.08	*****	*****	46.50		EEL39	M ..
6968.0223	43.6062	147.3378	0.00	980543.43	*****	*****	39.80		EEL39	M ..
6968.0223	43.5904	147.3911	0.00	980551.00	*****	*****	48.80		EEL39	M ..
6968.0300	43.4782	147.4506	0.00	980525.89	*****	*****	33.80		EEL39	M ..
6968.0300	43.4622	147.4548	0.00	980520.05	*****	*****	29.40		EEL39	M ..
6968.0300	43.4142	147.4673	0.00	980513.32	*****	*****	27.00		EEL39	M ..
6968.0301	43.3662	147.4798	0.00	980507.60	*****	*****	25.60		EEL39	M ..
6968.0305	43.3524	147.5044	0.00	980504.05	*****	*****	23.30		EEL39	M ..
6968.0306	43.3895	147.4941	0.00	980503.10	*****	*****	19.00		EEL39	M ..
6968.0306	43.4235	147.4895	0.00	980507.96	*****	*****	20.80		EEL39	M ..
6968.0306	43.4452	147.4836	0.00	980508.91	*****	*****	19.80		EEL39	M ..
6968.0306	43.4916	147.4732	0.00	980513.70	*****	*****	20.40		EEL39	M ..
6968.0307	43.6272	147.4040	0.00	980522.32	*****	*****	16.80		EEL39	M ..
6968.0307	43.6717	147.3724	0.00	980528.03	*****	*****	18.50		EEL39	M ..
6968.0307	43.7161	147.3409	0.00	980533.83	*****	*****	20.30		EEL39	M ..
6968.0328	43.7457	147.3108	0.00	980536.70	*****	*****	20.50		EEL39	M ..
7109.0404	43.3555	147.5074	0.00	980508.69	*****	*****	27.66		M 1978/04/12	M 50
7109.0404	43.3826	147.5099	0.00	980513.84	*****	*****	30.37		M	M 52
7109.0405	43.4098	147.5065	0.00	980516.76	*****	*****	30.84		M	M 53
7109.0405	43.4364	147.5033	0.00	980517.78	*****	*****	29.46		M	M 54
7109.0405	43.4627	147.5002	0.00	980522.49	*****	*****	31.80		M	M 55
7109.0405	43.4949	147.5011	0.00	980522.63	*****	*****	29.04		M	M 56
7109.0405	43.5277	147.5067	0.00	980527.22	*****	*****	30.67		M	M 57

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AUSTRALIAN GRAVITY DATA

1981/03/05

SOUTHEAST TASMANIA DATA

DATUM = DM MO

1981/03/05

BMR STATION NUMBER.	LATITUDE SOUTH (DEGREES)	LONGITUDE EAST (DEGREES)	METER ELEVATION (METRES)	OBSERVED GRAVITY (MGAL)	GROUND ELEVATION (METRES)	TERRAIN CORRECTION FOR 2.67	FREE AIR ANOMALY (MGAL)	BOUGUER ANOMALY FOR 2.67	INFORMAL STATION NAME, NUMBER, BENCHMARK, ETC.	LAST DATE STATION UPDATED
7109.0405	43.5459	147.5104	0.00	980527.24	*****	*****	29.05			M 1978/04/12
7109.0412	43.5566	147.2704	0.00	980520.20	*****	*****	21.04			M ..
7109.0413	43.5717	147.3082	0.00	980515.86	*****	*****	15.34			M ..
7109.0413	43.5861	147.3457	0.00	980525.92	*****	*****	24.11			M ..
7109.0413	43.5872	147.3700	0.00	980528.20	*****	*****	26.29			M ..
7109.0413	43.5751	147.3774	0.00	980526.92	*****	*****	26.10			M ..
7109.0413	43.5627	147.3865	0.00	980520.75	*****	*****	21.05			M ..
7109.0413	43.5472	147.3978	0.00	980518.64	*****	*****	20.33			M ..
7109.0414	43.5251	147.4139	0.00	980514.02	*****	*****	17.70			M ..
7109.0414	43.5013	147.4288	0.00	980510.76	*****	*****	16.59			M ..
7109.0414	43.4772	147.4325	0.00	980510.70	*****	*****	18.78			M ..
7109.0414	43.4688	147.4727	0.00	980511.19	*****	*****	19.95			M ..
7109.0414	43.4869	147.4905	0.00	980519.42	*****	*****	26.55			M ..
7109.0414	43.5127	147.4908	0.00	980520.83	*****	*****	25.63			M ..
7109.0415	43.5388	147.4912	0.00	980524.44	*****	*****	26.89			M ..
7109.0415	43.5605	147.4924	0.00	980518.76	*****	*****	18.89			M ..
7109.0415	43.5927	147.4953	0.00	980522.26	*****	*****	20.08			M ..
7109.0415	43.6157	147.4991	0.00	980530.23	*****	*****	25.75			M ..
7109.0415	43.6412	147.5011	0.00	980529.16	*****	*****	22.38			M ..
7109.0415	43.6668	147.5043	0.00	980521.74	*****	*****	12.65			M ..
7109.0415	43.6923	147.5082	0.00	980528.84	*****	*****	17.45			M ..
7109.0415	43.7182	147.5112	0.00	980532.32	*****	*****	18.61			M ..
7109.0416	43.7440	147.5140	0.00	980537.75	*****	*****	21.70			M ..
7109.1824	43.4519	147.4151	0.00	980516.85	-61.82	*****	27.13	31.39		M ..
7109.1824	43.4759	147.4154	0.00	980504.74	-62.44	*****	12.86	17.16		M ..
7109.1824	43.5047	147.4160	0.00	980508.80	-71.56	*****	14.32	19.25		M ..
7109.1825	43.5336	147.4174	0.00	980509.91	-75.16	*****	12.83	18.00		M ..
7109.1825	43.5626	147.4191	0.00	980516.15	-73.36	*****	16.45	21.50		M ..
7109.1825	43.5915	147.4211	0.00	980520.69	-84.90	*****	18.39	24.23		M ..
7109.1825	43.6221	147.4235	0.00	980523.52	-104.79	*****	18.64	25.85		M ..
7109.1825	43.6485	147.4265	0.00	980522.61	-114.06	*****	15.17	23.02		M ..
7109.1825	43.6768	147.4295	0.00	980525.64	-121.63	*****	15.65	24.02		M ..
7109.1826	43.7052	147.4284	0.00	980531.62	-127.74	*****	19.07	27.86		M ..
7109.1826	43.7338	147.4271	0.00	980528.68	-133.38	*****	13.55	22.73		M ..
7109.1914	43.7416	147.4507	0.00	980534.46	-137.01	*****	18.63	28.06		M ..
7109.1914	43.7253	147.4507	0.00	980534.79	-135.75	*****	22.43	29.77		M ..
7109.1914	43.7090	147.4507	0.00	980531.54	-133.18	*****	18.65	27.81		M ..
7109.1914	43.6926	147.4513	0.00	980536.36	-127.63	*****	24.94	33.73		M ..
7109.1915	43.6780	147.4522	0.00	980537.20	-121.74	*****	27.28	35.66		M ..
7109.1915	43.6596	147.4537	0.00	980532.22	-120.93	*****	23.78	32.10		M ..
7109.1915	43.6432	147.4549	0.00	980528.06	-115.79	*****	21.10	29.07		M ..
7114.7626	43.3437	148.0516	0.00	980519.30	-128.00	*****	39.33	48.14		M ..
7114.7626	43.3704	148.0405	0.00	980523.91	-130.00	*****	41.54	50.49		M ..
7267.4216	43.7314	147.9619	0.00	980536.71	*****	*****	21.80		EEL53	M 1979/02/23
7267.4216	43.7095	147.9471	0.00	980548.94	-821.00	*****	36.00	92.52	EEL53	M ..
7267.4216	43.6898	147.9334	0.00	980557.89	*****	*****	46.80		EEL53	M ..
7267.4216	43.6684	147.9196	0.00	980556.83	*****	*****	47.60		EEL53	M ..
7267.4216	43.6478	147.9059	0.00	980556.88	-277.00	*****	49.50	68.57	EEL53	M ..
7267.4216	43.6273	147.8921	0.00	980557.83	*****	*****	52.30		EEL53	M ..
7267.4217	43.6067	147.8784	0.00	980544.97	*****	*****	51.30		EEL53	M ..

AUSTRALIAN GRAVITY DATA

1981/03/05

SOUTHEAST TASMANIA DATA

DATUM = EDM MO

1981/03/05

BMR STATION NUMBER	LATITUDE SOUTH (DEGREES)	LONGITUDE EAST (DEGREES)	METER ELEVATION (METRES)	OBSERVED GRAVITY (MGAL)	GROUND ELEVATION (METRES)	TERRAIN CORRECTION FOR 2.67	FREE AIR ANOMALY (MGAL)	BOUGUER ANOMALY FOR 2.67	INFORMAL STATION NAME, NUMBER, BENCHMARK, ETC.	LAST DATE STATION UPDATED
7267.4217	43.5916	147.8685	0.00	980548.81	*****	*****	46.50		EEL53	M 1979/02/23
7267.4217	43.5706	147.8538	0.00	980543.72	*****	*****	43.30		EEL53	M ..
7267.4217	43.5532	147.8415	0.00	980541.85	*****	*****	43.00		EEL53	M ..
7267.4217	43.5359	147.8292	0.00	980538.09	-133.00	*****	40.80	49.96	EEL53	M ..
7267.4217	43.5160	147.8147	0.00	980531.30	*****	*****	35.80		EEL53	M ..
7267.4218	43.4961	147.8000	0.00	980526.30	*****	*****	32.60		EEL53	M ..
7267.4218	43.4759	147.7801	0.00	980523.48	-120.00	*****	31.60	39.86	EEL53	M ..
7267.4218	43.4556	147.7623	0.00	980521.55	*****	*****	31.50		EEL53	M ..
7267.4218	43.4354	147.7524	0.00	980519.73	*****	*****	31.50		EEL53	M ..
7267.4218	43.4174	147.7351	0.00	980517.41	-116.00	*****	30.80	38.79	EEL53	M ..
7267.4218	43.3996	147.7176	0.00	980516.41	*****	*****	31.40		EEL53	M ..
7267.4219	43.3498	147.6616	0.00	980510.32	*****	*****	29.80		EEL53	M ..
7267.4302	43.4552	147.4908	0.00	980514.92	-78.00	*****	24.90	30.27	EEL53	M ..
7267.4302	43.4772	147.4936	0.00	980523.00	*****	*****	31.00		EEL53	M ..
7267.4303	43.4986	147.4973	0.00	980528.73	*****	*****	34.80		EEL53	M ..
7267.4303	43.5135	147.5011	0.00	980530.57	-92.00	*****	35.30	41.63	EEL53	M ..
7267.4303	43.5276	147.5048	0.00	980530.54	*****	*****	34.00		EEL53	M ..
7267.4303	43.5492	147.5086	0.00	980531.49	*****	*****	33.00		EEL53	M 63127 -1
7267.4303	43.5671	147.5116	0.00	980533.40	*****	*****	33.30		EEL53	M 63158 -1
7267.4303	43.5930	147.5122	0.00	980533.54	*****	*****	31.10		EEL53	M 63367
7267.4304	43.6105	147.5120	0.00	980537.37	*****	*****	33.00		EEL53	M ..
7267.4304	43.6359	147.5118	0.00	980537.30	-120.00	*****	31.00	39.26	EEL53	M 63241 -1
7267.4304	43.6579	147.5116	0.00	980537.09	*****	*****	28.80		EEL53	M ..
7267.4304	43.6800	147.5113	0.00	980537.08	*****	*****	26.80		EEL53	M 63319 -
7267.4304	43.7021	147.5110	0.00	980538.07	-131.00	*****	25.80	34.02	EEL53	M ..
7267.4304	43.7243	147.5107	0.00	980540.87	*****	*****	26.60		EEL53	M 63181 -2
7267.4305	43.7464	147.5103	0.00	980543.67	*****	*****	27.40		EEL53	M ..
7303.2875	43.3483	146.7423	730.68	980331.81	730.68	*****	76.91	-4.83		M 1974/12/11
7303.2876	43.3750	146.9050	93.67	980477.75	93.67	*****	23.87	13.39		M ..
7303.2877	43.3567	146.9367	73.70	980483.11	73.70	*****	24.72	16.47		M ..
7303.2889	43.4067	146.7367	875.74	980310.58	875.74	*****	95.19	-2.78		M ..
7303.2890	43.4067	146.8433	44.71	980479.67	44.71	*****	7.83	2.82		M ..
7303.2891	43.4150	146.9267	0.00	980500.95	0.00	*****	14.56	14.56		M ..
7303.2899	43.4750	146.6767	918.28	980311.97	918.28	*****	103.55	.82		M ..
7303.2900	43.4717	146.7517	929.17	980318.62	929.17	*****	113.86	9.91		M ..
7303.2901	43.4633	146.8450	140.51	980468.17	140.51	*****	20.78	5.06		M ..
7303.2902	43.4783	146.9467	0.00	980507.97	0.00	*****	15.87	15.87		M 1975/03/11
7303.2907	43.5300	146.6750	824.37	980347.41	824.37	*****	105.05	12.83		M 1974/12/11
7303.2908	43.5317	146.7233	849.11	980301.81	849.11	*****	106.94	11.95		M ..
7303.2909	43.5200	146.8317	91.83	980489.84	91.83	*****	22.32	12.05		M ..
7303.2910	43.5350	146.9223	2.00	980517.54	2.00	*****	20.95	20.73		M ..
7303.2915	43.6700	146.6717	2.00	980524.05	2.00	*****	15.29	15.07		M ..
7303.2916	43.5983	146.8450	18.40	980525.78	18.40	*****	28.54	26.48		M ..
7303.2917	43.5983	146.9123	3.30	980530.85	3.30	*****	28.95	28.58		M ..
7303.2928	43.6017	146.7817	2.30	980529.08	2.30	*****	26.57	26.32		M ..
7303.2929	43.4083	147.0167	49.97	980492.19	49.97	*****	21.82	16.23		M ..

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863126

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 \* AUSTRALIAN GRAVITY DATA \*  
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1981/03/05

\* 1981/03/05 \*

81-1639 29

8012 TASGRAV

15/01/8

1981/02/02

8012.001

15/01/8

DATUM = =DM MO

1981/02/02

STATION NUMBER.	LATITUDE SOUTH. (DEGREES)	LONGITUDE EAST. (DEGREES)	METER ELEVATION (METRES)	OBSERVED GRAVITY. (MGAL)	GROUND ELEVATION (METRES)	TERRAIN CORRECTION FOR 2.35	FREE AIR ANOMALY. (MGAL)	BOUGUER ANOMALY. FOR 2.35	INFORMAL STATION NAME, NUMBER, BENCHMARK, ETC.	* LAST DATE STATION UPDATED
6491.0260	*****	*****	*****	980450.52	*****	*****				1981/01/15
8012.0001	43.4478	145.9040	34.81	980489.86	34.81	*****	11.25	7.82		1981/02/02
8012.0002	43.4500	145.9042	19.69	980491.90	19.69	*****	8.42	6.49		..
8012.0003	43.4518	145.9048	21.93	980491.45	21.93	*****	8.51	6.35		..
8012.0004	43.4540	145.9045	26.89	980490.32	26.89	*****	8.71	6.07		..
8012.0005	43.4560	145.9035	32.41	980488.90	32.41	*****	8.82	5.63		..
8012.0006	43.4580	145.9023	38.68	980486.85	38.68	*****	8.52	4.71		..
8012.0007	43.4598	145.9008	45.57	980484.87	45.57	*****	8.50	4.01		..
8012.0008	43.4620	145.8993	49.65	980483.63	49.65	*****	8.32	3.43		..
8012.0009	43.4642	145.8987	48.55	980483.20	48.55	*****	7.36	2.58		..
8012.0010	43.4665	145.8987	47.36	980483.43	47.36	*****	7.01	2.35		..
8012.0011	43.4687	145.8988	52.45	980482.29	52.45	*****	7.25	2.08		..
8012.0012	43.4698	145.8973	68.56	980478.87	68.56	*****	8.70	1.95		..
8012.0013	43.4700	145.8938	82.71	980476.26	82.71	*****	10.43	2.29		..
8012.0014	43.4715	145.8918	93.84	980473.98	93.84	*****	11.46	2.22		..
8012.0015	43.4733	145.8908	101.00	980472.75	101.00	*****	12.27	2.33		..
8012.0016	43.4765	145.8907	90.01	980475.32	90.01	*****	11.16	2.30		..
8012.0017	43.4788	145.8900	85.85	980476.58	85.85	*****	10.92	2.47		..
8012.0018	43.4803	145.8892	81.42	980477.81	81.42	*****	10.66	2.64		..
8012.0019	43.4813	145.8890	75.63	980478.89	75.63	*****	9.86	2.42		..
8012.0020	43.4842	145.8902	76.26	980479.10	76.26	*****	10.01	2.50		..
8012.0021	43.4868	145.8895	80.42	980478.65	80.42	*****	10.60	2.68		..
8012.0022	43.4890	145.8893	88.61	980477.91	88.61	*****	12.20	3.47		..
8012.0023	43.4907	145.8882	94.16	980477.42	94.16	*****	13.26	3.99		..
8012.0024	43.4922	145.8867	87.48	980479.24	87.48	*****	12.89	4.27		..
8012.0025	43.4938	145.8855	79.47	980481.82	79.47	*****	12.84	5.02		..
8012.0026	43.4952	145.8840	73.86	980483.93	73.86	*****	13.10	5.83		..
8012.0027	43.4943	145.8818	68.07	980486.67	68.07	*****	14.14	7.43		..
8012.0028	43.4955	145.8802	61.93	980488.12	61.93	*****	13.59	7.49		..
8012.0029	43.4973	145.8787	54.27	980490.17	54.27	*****	13.10	7.76		..
8012.0030	43.4993	145.8783	49.06	980491.29	49.06	*****	12.43	7.60		..
8012.0031	43.5010	145.8780	46.40	980492.31	46.40	*****	12.48	7.91		..
8012.0032	43.5030	145.8763	40.80	980493.96	40.80	*****	12.22	8.21		..
8012.0033	43.5043	145.8748	32.36	980496.23	32.36	*****	11.77	8.58		..
8012.0034	43.5068	145.8745	22.93	980498.64	22.93	*****	11.05	8.79		..
8012.0035	43.5092	145.8735	19.97	980500.27	19.97	*****	11.55	9.59		..
8012.0036	43.5095	145.8757	19.15	980498.96	19.15	*****	9.96	8.07		..
8012.0037	43.5097	145.8787	19.67	980498.51	19.67	*****	9.65	7.71		..
8012.0038	43.5105	145.8817	25.05	980497.73	25.05	*****	10.46	7.99		..
8012.0039	43.5120	145.8832	27.55	980498.00	27.55	*****	11.37	8.66		..
8012.0040	43.5140	145.8833	31.42	980498.18	31.42	*****	12.56	9.46		..
8012.0041	43.5163	145.8832	35.29	980497.98	35.29	*****	13.34	9.87		..
8012.0042	43.5183	145.8823	28.85	980499.76	28.85	*****	12.95	10.11		..
8012.0043	43.5202	145.8807	28.37	980500.32	28.37	*****	13.20	10.41		..
8012.0044	43.5218	145.8790	32.09	980500.12	32.09	*****	14.00	10.84		..
8012.0045	43.5237	145.8787	36.62	980499.72	36.62	*****	14.84	11.23		..
8012.0046	43.5258	145.8798	37.79	980501.19	37.79	*****	16.47	12.75		..
8012.0047	43.5282	145.8827	51.48	980498.89	51.48	*****	18.18	13.11		..
8012.0048	43.5285	145.8792	55.63	980499.02	55.63	*****	19.57	14.09		..
8012.0049	43.5287	145.8760	66.20	980496.38	66.20	*****	20.17	13.65		..

863128

8012.001

15/01/78

DATUM = =DM MO

1981/02/02

STATION NUMBER.	LATITUDE SOUTH. (DEGREES)	LONGITUDE EAST. (DEGREES)	METER ELEVATION (METRES)	OBSERVED GRAVITY. (MGAL)	GROUND ELEVATION (METRES)	TERRAIN CORRECTION FOR 2.35	FREE AIR ANOMALY. (MGAL)	BOUGUER ANOMALY. FOR 2.35	INFORMAL STATION NAME, NUMBER, BENCHMARK, ETC.	* LAST DATE STATION UPDATED
8012.0050	43.5295	145.8737	63.87	980496.72	63.87	*****	19.72	13.43		1981/02/02
8012.0051	43.5305	145.8715	60.65	980496.98	60.65	*****	18.89	12.92		..
8012.0052	43.5315	145.8688	52.26	980498.19	52.26	*****	17.43	12.28		..
8012.0053	43.5322	145.8655	51.90	980498.15	51.90	*****	17.21	12.10		..
8012.0054	43.5327	145.8620	56.55	980496.64	56.55	*****	17.10	11.53		..
8012.0055	43.5350	145.8625	61.47	980495.75	61.47	*****	17.51	11.45		..
8012.0056	43.5362	145.8647	69.81	980494.77	69.81	*****	19.00	12.13		..
8012.0057	43.5383	145.8653	59.09	980498.34	59.09	*****	19.07	13.25		..
8012.0058	43.5392	145.8672	54.44	980500.48	54.44	*****	19.70	14.34		..
8012.0059	43.5408	145.8677	48.36	980502.64	48.36	*****	19.83	15.07		..
8012.0060	43.5427	145.8660	50.65	980502.25	50.65	*****	19.98	15.00		..
8012.0061	43.5442	145.8642	43.62	980504.07	43.62	*****	19.49	15.20		..
8012.0062	43.5460	145.8620	35.50	980506.11	35.50	*****	18.86	15.37		..
8012.0063	43.5488	145.8600	27.28	980509.01	27.28	*****	18.97	16.29		..
8012.0064	43.5503	145.8615	22.12	980510.55	22.12	*****	18.78	16.61		..
8012.0065	43.5517	145.8637	20.39	980512.05	20.39	*****	19.63	17.62		..
8012.0066	43.5527	145.8665	20.55	980513.47	20.55	*****	21.01	18.99		..
8012.0067	43.5540	145.8685	21.31	980514.58	21.31	*****	22.24	20.14		..
8012.0068	43.5553	145.8705	16.01	980516.16	16.01	*****	22.06	20.49		..
8012.0069	43.5570	145.8727	8.61	980517.66	8.61	*****	21.12	20.28		..
8012.0070	43.5590	145.8715	7.72	980518.70	7.72	*****	21.71	20.95		..
8012.0071	43.5602	145.8700	12.08	980518.02	12.08	*****	22.27	21.08		..
8012.0072	43.5617	145.8678	21.37	980516.56	21.37	*****	23.54	21.44		..
8012.0073	43.5633	145.8663	21.39	980516.90	21.39	*****	23.74	21.64		..
8012.0074	43.5650	145.8643	19.82	980517.29	19.82	*****	23.49	21.54		..
8012.0075	43.5667	145.8622	25.04	980516.72	25.04	*****	24.39	21.92		..
8012.0076	43.5687	145.8607	30.80	980516.04	30.80	*****	25.31	22.27		..
8012.0077	43.5698	145.8600	36.35	980514.60	36.35	*****	25.47	21.90		..
8012.0078	43.5713	145.8590	39.29	980514.05	39.29	*****	25.69	21.82		..
8012.0079	43.5722	145.8568	46.43	980515.19	46.43	*****	28.96	24.39		..
8012.0080	43.5735	145.8548	40.19	980515.03	40.19	*****	26.76	22.80		..
8012.0081	43.5757	145.8548	32.08	980517.64	32.08	*****	26.67	23.51		..
8012.0082	43.5780	145.8537	25.47	980519.13	25.47	*****	25.91	23.40		..
8012.0083	43.5805	145.8523	39.37	980517.29	39.37	*****	28.13	24.26		..
8012.0084	43.5822	145.8502	37.95	980517.33	37.95	*****	27.59	23.85		..
8012.0085	43.5835	145.8477	40.74	980515.18	40.74	*****	26.17	22.16		..
8012.0086	43.5832	145.8445	45.56	980514.00	45.56	*****	26.51	22.02		..
8012.0087	43.5832	145.8415	56.92	980512.23	56.92	*****	28.24	22.64		..
8012.0088	43.5843	145.8392	56.78	980511.83	56.78	*****	27.70	22.10		..
8012.0089	43.5857	145.8370	56.26	980512.75	56.26	*****	28.34	22.80		..
8012.0090	43.5852	145.8348	48.25	980514.79	48.25	*****	27.95	23.20		..
8012.0091	43.5849	145.8330	51.49	980513.41	51.49	*****	27.60	22.53		..
8012.0092	43.5843	145.8313	55.90	980512.34	55.90	*****	27.94	22.43		..
8012.0093	43.5287	145.8853	34.58	980503.40	34.58	*****	17.43	14.03		..
8012.0094	43.5292	145.8890	29.47	980505.01	29.47	*****	17.43	14.53		..
8012.0095	43.5293	145.8920	17.73	960508.04	17.73	*****	16.81	15.06		..
8012.0096	43.5303	145.8935	9.56	980510.37	9.56	*****	16.53	15.59		..
8012.0098	43.5320	145.8927	2.61	980510.20	2.61	*****	14.07	13.81		..
8012.0099	43.5342	145.8898	2.01	980510.80	2.01	*****	14.29	14.09		..
8012.0100	43.5363	145.8878	2.03	980511.25	2.03	*****	14.55	14.35		..

8012.001

15/01/8

DATUM = EDM MD

1981/02/02

STATION NUMBER.	LATITUDE SOUTH. (DEGREES)	LONGITUDE EAST. (DEGREES)	METER ELEVATION (METRES)	OBSERVED GRAVITY. (MGAL)	GROUND ELEVATION (METRES)	TERRAIN CORRECTION FOR 2.35	FREE AIR ANOMALY. (MGAL)	BOUGUER ANOMALY. FOR 2.35	INFORMAL STATION NAME, NUMBER, BENCHMARK, ETC. -----	* LAST DATE STATION UPDATED
8012.0101	43.5383	145.8892	4.71	980511.04	4.71	*****	14.99	14.52		1981/02/02
8012.0102	43.5402	145.8897	6.43	980512.35	6.43	*****	16.66	16.02		..
8012.0103	43.5422	145.8902	8.12	980514.54	8.12	*****	19.19	18.39		..
8012.0104	43.5442	145.8890	2.57	980516.51	2.57	*****	19.27	19.01		..
8012.0105	43.5460	145.8875	4.20	980517.26	4.20	*****	20.35	19.94		..
8012.0106	43.5477	145.8867	3.49	980517.99	3.49	*****	20.71	20.37		..
8012.0107	43.5500	145.8853	2.86	980518.23	2.86	*****	20.56	20.28		..
8012.0108	43.5518	145.8838	11.13	980516.56	11.13	*****	21.27	20.18		..
8012.0109	43.5533	145.8828	9.14	980517.18	9.14	*****	21.14	20.24		..
8012.0110	43.5555	145.8822	8.61	980517.62	8.61	*****	21.22	20.37		..
8012.0111	43.5565	145.8842	8.19	980518.32	8.19	*****	21.70	20.90		..
8012.0112	43.5575	145.8873	12.08	980517.72	12.08	*****	22.21	21.02		..
8012.0113	43.5595	145.8885	6.38	980519.00	6.38	*****	21.56	20.93		..
8012.0114	43.5613	145.8895	8.27	980519.26	8.27	*****	22.23	21.42		..
8012.0115	43.5635	145.8895	7.46	980519.95	7.46	*****	22.47	21.74		..
8012.0116	43.5648	145.8882	5.92	980520.65	5.92	*****	22.58	22.00		..
8012.0117	43.5663	145.8868	5.49	980521.41	5.49	*****	23.08	22.54		..
8012.0118	43.5672	145.8847	4.88	980520.93	4.88	*****	22.33	21.85		..
8012.0119	43.5692	145.8858	7.56	980520.81	7.56	*****	22.86	22.11		..
8012.0120	43.5710	145.8872	9.29	980521.39	9.29	*****	23.80	22.89		..
8012.0121	43.5727	145.8888	12.16	980520.13	12.16	*****	23.28	22.09		..
8012.0122	43.5752	145.8890	12.79	980520.30	12.79	*****	23.42	22.16		..
8012.0123	43.5773	145.8878	6.26	980522.66	6.26	*****	23.56	22.95		..
8012.0124	43.5788	145.8850	.70	980523.81	.70	*****	22.87	22.80		..
8012.0125	43.5813	145.8862	1.67	980523.85	1.67	*****	22.99	22.82		..
8012.0126	43.5828	145.8885	1.04	980524.04	1.04	*****	22.84	22.74		..
8012.0127	43.5837	145.8910	2.50	980524.89	2.50	*****	24.06	23.82		..
8012.0128	43.5273	145.8940	3.40	980511.36	3.40	*****	15.89	15.56		..
8012.0129	43.5258	145.8953	3.45	980511.26	3.45	*****	15.94	15.60		..
8012.0130	43.5238	145.8960	5.85	980510.23	5.85	*****	15.83	15.26		..
8012.0131	43.5222	145.8965	3.63	980509.99	3.63	*****	15.05	14.70		..
8012.0132	43.5195	145.8973	6.44	980508.82	6.44	*****	14.99	14.36		..
8012.0133	43.5172	145.8978	8.53	980507.60	8.53	*****	14.63	13.79		..
8012.0134	43.5155	145.9005	9.10	980507.45	9.10	*****	14.81	13.91		..
8012.0135	43.5145	145.9027	5.40	980508.75	5.40	*****	15.06	14.53		..
8012.0136	43.5135	145.9048	1.80	980509.10	1.80	*****	14.39	14.21		..
8012.0137	43.5125	145.9077	.65	980508.92	.65	*****	13.94	13.88		..
8012.0138	43.5113	145.9095	3.97	980506.77	3.97	*****	12.92	12.53		..
8012.0139	43.5092	145.9108	9.11	980505.08	9.11	*****	13.01	12.12		..
8012.0140	43.5075	145.9118	19.18	980502.35	19.18	*****	13.54	11.65		..
8012.0141	43.5055	145.9123	23.79	980500.74	23.79	*****	13.53	11.19		..
8012.0142	43.5035	145.9117	28.59	980499.37	28.59	*****	13.83	11.01		..
8012.0143	43.5018	145.9095	38.96	980496.45	38.96	*****	14.25	10.42		..
8012.0144	43.5010	145.9070	51.34	980493.37	51.34	*****	15.07	10.02		..
8012.0145	43.5002	145.9037	54.04	980492.24	54.04	*****	14.85	9.52		..
8012.0146	43.4992	145.9032	50.84	980492.35	50.84	*****	14.06	9.06		..
8012.0147	43.4972	145.9022	46.37	980492.09	46.37	*****	12.61	8.04		..
8012.0148	43.4953	145.9018	37.01	980492.91	37.01	*****	10.70	7.06		..
8012.0149	43.4930	145.9005	32.04	980493.00	32.04	*****	9.47	6.31		..
8012.0150	43.4912	145.9002	38.19	980490.90	38.19	*****	9.43	5.67		..

8012.001

15/01/78

DATUM = EDM MO

1981/02/02

STATION NUMBER.	LATITUDE SOUTH. (DEGREES)	LONGITUDE EAST. (DEGREES)	METER ELEVATION (METRES)	OBSERVED GRAVITY. (MGAL)	GROUND ELEVATION (METRES)	TERRAIN CORRECTION FOR 2.35	FREE AIR ANOMALY. (MGAL)	BOUGUER ANOMALY. FOR 2.35	INFORMAL STATION NAME, NUMBER, BENCHMARK, ETC.	* LAST DATE STATION UPDATED
8012.0151	43.4887	145.9012	33.76	980491.32	33.76	*****	8.70	5.38		1981/02/02
8012.0152	43.4870	145.9033	34.94	980491.05	34.94	*****	8.95	5.51		..
8012.0153	43.4853	145.9057	30.13	980491.42	30.13	*****	7.99	5.02		..
8012.0154	43.4828	145.9058	28.91	980491.55	28.91	*****	7.97	5.12		..
8012.0155	43.4812	145.9042	31.88	980490.35	31.88	*****	7.83	4.69		..
8012.0156	43.4790	145.9037	33.77	980489.48	33.77	*****	7.74	4.41		..
8012.0157	43.4772	145.9042	36.63	980488.65	36.63	*****	7.96	4.35		..
8012.0158	43.4748	145.9038	34.30	980489.06	34.30	*****	7.86	4.49		..
8012.0159	43.4728	145.9032	33.76	980488.80	33.76	*****	7.61	4.29		..
8012.0160	43.4710	145.9020	38.47	980487.39	38.47	*****	7.82	4.03		..
8012.0161	43.4697	145.9013	42.91	980485.86	42.91	*****	7.78	3.55		..
8012.0162	43.4685	145.9002	49.08	980484.37	49.08	*****	8.30	3.47		..
8012.0163	43.4485	145.9018	44.20	980488.78	44.20	*****	13.01	8.66		..
8012.0164	43.4498	145.8995	46.51	980487.27	46.51	*****	12.10	7.52		..
8012.0165	43.4512	145.8973	52.81	980485.56	52.81	*****	12.21	7.01		..
8012.0166	43.4523	145.8945	60.26	980483.49	60.26	*****	12.33	6.40		..
8012.0167	43.4527	145.8917	61.16	980482.70	61.16	*****	11.79	5.77		..
8012.0168	43.4523	145.8883	58.57	980482.68	58.57	*****	11.00	5.23		..
8012.0169	43.4503	145.8867	60.45	980481.98	60.45	*****	11.06	5.11		..
8012.0170	43.4512	145.8842	69.81	980479.22	69.81	*****	11.11	4.23		..
8012.0171	43.4528	145.8830	71.95	980478.68	71.95	*****	11.08	3.99		..
8012.0172	43.4545	145.8815	72.48	980478.67	72.48	*****	11.08	3.95		..
8012.0173	43.4547	145.8795	71.62	980479.37	71.62	*****	11.50	4.45		..
8012.0174	43.4560	145.8772	73.58	980479.98	73.58	*****	12.60	5.36		..
8012.0175	43.4560	145.8742	69.79	980481.29	69.79	*****	12.74	5.87		..
8012.0176	43.4467	145.9067	11.69	980495.15	11.69	*****	9.51	8.36		..
8012.0177	43.4475	145.9103	4.00	980496.89	4.00	*****	8.80	8.41		..
8012.0178	43.4483	145.9132	1.14	980498.66	1.14	*****	9.62	9.50		..
8012.0179	43.4502	145.9152	.20	980498.73	.20	*****	9.23	9.21		..
8012.0180	43.4503	145.9188	9.19	980497.52	9.19	*****	10.78	9.88		..
8012.0181	43.4497	145.9213	18.70	980498.25	18.70	*****	14.50	12.66		..
8012.0182	43.4485	145.9237	13.07	*****	13.07	*****				..
8012.0183	43.4487	145.9265	13.63	980499.25	13.63	*****	14.03	12.68		..
8012.0184	43.4493	145.9288	9.04	980500.25	9.04	*****	13.55	12.66		..
8012.0185	43.4502	145.9313	8.64	980501.04	8.64	*****	14.14	13.29		..
8012.0186	43.4513	145.9355	8.67	980501.40	8.67	*****	14.41	13.55		..
8012.0187	43.4515	145.9390	5.02	980502.45	5.02	*****	14.31	13.82		..
8012.0188	43.4525	145.9418	3.94	*****	3.94	*****				..
8012.0189	43.4533	145.9450	2.07	980503.00	2.07	*****	13.79	13.58		..
8012.0190	43.4537	145.9467	1.73	980503.52	1.73	*****	14.18	14.00		..
8012.0191	43.4547	145.9478	1.00	980503.59	1.00	*****	13.93	13.83		..
8012.0192	43.4547	145.9460	30.39	980498.07	30.39	*****	17.49	14.49		..
8012.0193	43.4550	145.9440	23.14	980499.29	23.14	*****	16.43	14.15		..
8012.0194	43.4553	145.9417	24.20	980498.92	24.20	*****	16.36	13.98		..
8012.0195	43.4552	145.9392	26.42	980498.44	26.42	*****	16.58	13.98		..
8012.0196	43.4547	145.9368	19.34	980499.69	19.34	*****	15.69	13.79		..
8012.0197	43.4518	145.9322	19.23	980499.47	19.23	*****	15.69	13.79		..
8012.0198	43.4530	145.9328	14.07	980499.75	14.07	*****	14.27	12.89		1981/01/29
8012.0199	43.4518	145.9322	8.47	980501.02	8.47	*****	13.93	13.09		..
8012.0200	43.4623	145.8968	61.11	980481.65	61.11	*****	9.85	3.84		1981/02/02

8012.001

15/01/8

DATUM = EDM NO

1981/02/02

STATION NUMBER.	LATITUDE SOUTH. (DEGREES)	LONGITUDE EAST. (DEGREES)	METER ELEVATION (METRES)	OBSERVED GRAVITY. (MGAL)	GROUND ELEVATION (METRES)	TERRAIN CORRECTION FOR 2.35	FREE AIR ANOMALY. (MGAL)	BOUGUER ANOMALY. FOR 2.35	INFORMAL STATION NAME, NUMBER, BENCHMARK, ETC.	* LAST DATE STATION UPDATED
8012.0201	43.4622	145.8947	69.02	980479.62	69.02	*****	10.27	3.48		1981/02/02
8012.0202	43.4653	145.8908	125.19	980469.64	125.19	*****	17.35	5.02		..
8012.0203	43.4670	145.8905	113.67	980472.00	113.67	*****	16.00	4.81		..
8012.0204	43.4683	145.8918	98.18	980475.33	98.18	*****	14.43	4.76		..
8012.0205	43.5058	145.8788	22.10	980500.27	22.10	*****	12.51	10.33		..
8012.0206	43.5058	145.8813	20.81	980499.02	20.81	*****	10.86	8.81		..
8012.0207	43.5058	145.8835	25.61	980498.53	25.61	*****	11.85	9.33		..
8012.0208	43.5055	145.8868	25.79	980498.82	25.79	*****	12.23	9.69		..
8012.0209	43.5055	145.8893	27.87	980499.44	27.87	*****	13.49	10.75		..
8012.0210	43.5055	145.8932	33.14	980498.98	33.14	*****	14.66	11.39		..
8012.0211	43.5128	145.8853	21.06	980501.76	21.06	*****	13.05	10.98		..
8012.0212	43.5132	145.8882	12.84	980504.53	12.84	*****	13.26	11.99		..
8012.0213	43.5135	145.8912	9.95	980505.77	9.95	*****	13.57	12.59		..
8012.0214	43.5132	145.8932	12.15	980505.64	12.15	*****	14.15	12.95		..
8012.0215	43.5315	145.8633	71.65	*****	71.65	*****				..
8012.0216	43.5573	145.8680	8.58	*****	8.58	*****				..
8012.0217	43.5697	145.8582	29.73	980517.20	29.73	*****	26.04	23.11		..
8012.0218	43.5703	145.8552	29.83	980516.77	29.83	*****	25.58	22.64		..
8012.0219	43.5705	145.8522	32.32	980516.06	32.32	*****	25.62	22.44		..
8012.0220	43.5693	145.8497	29.68	980516.64	29.68	*****	25.50	22.58		..
8012.0221	43.5670	145.8482	28.92	980516.28	28.92	*****	25.12	22.27		..
8012.0222	43.5673	145.8457	38.51	980514.93	38.51	*****	26.69	22.90		..
8012.0223	43.5653	145.8458	47.68	980511.92	47.68	*****	26.69	22.00		..
8012.0224	43.5633	145.8443	43.40	980512.97	43.40	*****	26.61	22.33		..
8012.0225	43.5700	145.8478	35.96	980516.37	35.96	*****	27.11	23.57		..
8012.0226	43.5710	145.8460	37.68	980515.86	37.68	*****	27.04	23.33		..
8012.0227	43.5703	145.8623	34.12	980516.78	34.12	*****	26.92	23.56		..
8012.0228	43.5713	145.8653	33.89	980516.58	33.89	*****	26.56	23.22		..
8012.0229	43.5710	145.8690	32.50	980516.55	32.50	*****	26.13	22.93		..
8012.0230	43.5753	145.8565	38.59	980517.00	38.59	*****	28.06	24.26		..
8012.0231	43.5757	145.8590	42.42	980516.27	42.42	*****	28.49	24.31		..
8012.0232	43.5772	145.8612	41.94	980517.07	41.94	*****	29.00	24.87		..
8012.0233	43.5787	145.8655	35.39	980518.67	35.39	*****	28.45	24.96		..
8012.0234	43.5780	145.8680	44.75	980516.34	44.75	*****	29.07	24.66		..
8012.0235	43.5767	145.8703	55.89	980513.38	55.89	*****	29.66	24.16		..
8012.0236	43.5843	145.8517	42.72	980517.53	42.72	*****	29.05	24.85		..
8012.0237	43.5853	145.8538	40.27	980519.05	40.27	*****	29.73	25.77		..
8012.0238	43.5873	145.8545	19.55	980522.53	19.55	*****	26.64	24.72		..
8012.0239	43.5883	145.8572	19.90	980523.74	19.90	*****	27.86	25.90		..
8012.0240	43.5652	145.8848	8.51	980522.63	8.51	*****	25.33	24.49		..
8012.0241	43.5637	145.8825	9.51	980522.20	9.51	*****	25.34	24.41		..
8012.0242	43.5620	145.8800	11.98	980521.23	11.98	*****	25.29	24.11		..
8012.0243	43.5607	145.8778	11.65	980520.38	11.65	*****	24.45	23.31		..
8012.0244	43.5588	145.8752	8.54	980520.80	8.54	*****	24.08	23.24		..
8012.0245	43.5565	145.8805	2.78	980521.18	2.78	*****	22.89	22.62		..
8012.0246	43.5573	145.8785	1.85	980521.22	1.85	*****	22.57	22.39		..
8012.0247	43.5582	145.8763	2.21	980521.34	2.21	*****	22.73	22.51		..
8012.0248	43.4623	145.9010	43.60	980486.66	43.60	*****	9.45	5.16		..
8012.0249	43.4623	145.9040	49.30	980487.15	49.30	*****	11.70	6.85		..
8012.0250	43.4625	145.9075	92.40	980480.15	92.40	*****	17.99	8.89		..

8012.001

15/01/8

DATUM = EDM MO

1981/02/02

STATION NUMBER.	LATITUDE SOUTH. (DEGREES)	LONGITUDE EAST. (DEGREES)	METER ELEVATION (METRES)	OBSERVED GRAVITY. (MGAL)	GROUND ELEVATION (METRES)	TERRAIN CORRECTION FOR 2.35	FREE AIR ANOMALY. (MGAL)	BOUGUER ANOMALY. FOR 2.35	INFORMAL STATION NAME, NUMBER, BENCHMARK, ETC.	* LAST DATE STATION UPDATED
8012.0251	43.4625	145.9107	83.60	980483.67	83.60	*****	18.79	10.56		1981/02/02
8012.0252	43.4622	145.9135	73.00	980485.90	73.00	*****	17.78	10.59		..
8012.0253	43.4623	145.9162	74.50	*****	74.50	*****				..
8012.0254	43.4628	145.9187	64.90	980489.63	64.90	*****	18.95	12.56		..
8012.0255	43.4630	145.9217	72.70	980488.75	72.70	*****	20.47	13.31		..
8012.0256	43.4653	145.9225	54.00	980490.18	54.00	*****	15.91	10.60		..
8012.0257	43.4653	145.9202	74.40	980484.95	74.40	*****	16.99	9.66		..
8012.0258	43.4655	145.9170	55.10	980488.27	55.10	*****	14.33	8.90		..
8012.0259	43.4655	145.9143	32.80	980490.78	32.80	*****	9.96	6.73		..
8012.0260	43.4655	145.9115	49.50	980486.99	49.50	*****	11.33	6.45		..
8012.0261	43.4655	145.9085	36.30	980488.16	36.30	*****	8.42	4.84		..
8012.0262	43.4655	145.9057	32.90	980487.88	32.90	*****	7.09	3.85		..
8012.0263	43.4652	145.9030	40.20	*****	40.20	*****				..
8012.0265	43.4647	145.9000	46.30	980486.60	46.30	*****	10.02	5.46		..
8012.0266	43.4620	145.8947	69.02	980479.97	*****	*****	10.64			..
8012.0267	43.4625	145.8910	95.20	980474.29	95.20	*****	12.99	3.62		..
8012.0268	43.4620	145.8883	130.00	980467.67	130.00	*****	17.16	4.36		..
8012.0269	43.4615	145.8850	150.10	980463.33	150.10	*****	19.06	4.28		..
8012.0270	43.4615	145.8818	145.20	980464.49	145.20	*****	18.72	4.42		..
8012.0271	43.4638	145.8822	187.90	980457.60	187.90	*****	24.79	6.29		..
8012.0272	43.4645	145.8857	154.40	980463.09	154.40	*****	19.89	4.68		..
8012.0273	43.4645	145.8885	116.00	980471.61	116.00	*****	16.55	5.13		..
8012.0274	43.4645	145.8908	98.30	980475.60	98.30	*****	15.08	5.40		..
8012.0275	43.4640	145.8927	93.40	980476.68	93.40	*****	14.69	5.49		..
8012.0277	43.4678	145.9043	39.20	980487.47	39.20	*****	8.41	4.55		..
8012.0278	43.4678	145.9075	34.40	980488.85	34.40	*****	8.31	4.92		..
8012.0279	43.4682	145.9110	37.50	980489.93	37.50	*****	10.31	6.62		..
8012.0280	43.4680	145.9142	38.70	980490.95	38.70	*****	11.72	7.91		..
8012.0281	43.4682	145.9163	53.40	980488.98	53.40	*****	14.27	9.01		..
8012.0282	43.4680	145.9180	41.70	980491.63	41.70	*****	13.33	9.23		..
8012.0283	43.4683	145.9207	77.60	980485.39	77.60	*****	18.14	10.49		..
8012.0284	43.4703	145.9200	83.70	980483.70	83.70	*****	18.15	9.91		..
8012.0285	43.4708	145.9170	41.60	980492.06	41.60	*****	13.47	9.37		..
8012.0286	43.4715	145.9140	37.20	980491.82	37.20	*****	11.82	8.15		..
8012.0287	43.4717	145.9112	37.70	980490.67	37.70	*****	10.80	7.09		..
8012.0288	43.4710	145.9083	34.10	980489.86	34.10	*****	8.94	5.59		..
8012.0289	43.4710	145.9052	32.80	980489.31	32.80	*****	7.99	4.76		..
8012.0290	43.4733	145.8887	141.90	980465.55	141.90	*****	17.69	3.72		..
8012.0291	43.4745	145.8853	171.20	980460.85	*****	*****	21.93			..
8012.0292	43.4745	145.8827	222.70	980451.88	222.70	*****	28.85	6.93		..
8012.0293	43.4727	145.8828	218.10	980454.54	218.10	*****	30.26	8.78		..
8012.0294	43.4703	145.8828	213.80	980454.84	213.80	*****	29.44	8.39		..
8012.0295	43.4687	145.8825	198.40	980458.74	198.40	*****	28.74	9.21		..
8012.0296	43.4668	145.8828	182.90	980461.01	182.90	*****	26.39	8.38		..
8012.0297	43.4672	145.8858	165.30	980463.58	165.30	*****	23.50	7.22		..
8012.0298	43.4688	145.8857	161.80	980465.04	161.80	*****	23.73	7.80		..
8012.0299	43.4707	145.8865	157.70	980466.51	157.70	*****	23.77	8.24		..
8012.0300	43.4712	145.8893	126.40	980471.64	126.40	*****	19.20	6.75		..
8012.0301	43.4913	145.8912	90.40	980478.78	90.40	*****	13.40	4.50		..
8012.0302	43.4922	145.8933	83.10	980480.92	83.10	*****	13.21	5.03		..

8012.001

15/01/78

DATUM = EDM MO

1981/02/02

STATION NUMBER.	LATITUDE SOUTH. (DEGREES)	LONGITUDE EAST. (DEGREES)	METER ELEVATION (METRES)	OBSERVED GRAVITY. (MGAL)	GROUND ELEVATION (METRES)	TERRAIN CORRECTION FOR 2,35	FREE AIR ANOMALY. (MGAL)	BOUGUER ANOMALY. FOR 2.35	INFORMAL STATION NAME, NUMBER, BENCHMARK, ETC.	* LAST DATE STATION UPDATED
8012.0303	43.4925	145.8958	70.20	980485.34	70.20	*****	13.62	6.71		1981/02/02
8012.0304	43.4927	145.8983	58.40	980487.06	58.40	*****	11.69	5.94		..
8012.0305	43.4807	145.9010	37.10	980487.21	37.10	*****	6.35	2.69		..
8012.0306	43.4808	145.8975	61.20	980482.25	61.20	*****	8.81	2.78		..
8012.0307	43.4810	145.8952	54.80	980484.36	54.80	*****	8.93	3.53		..
8012.0308	43.4805	145.8922	64.30	980481.58	64.30	*****	9.13	2.80		..
8012.0309	43.5132	145.9112	5.10	980507.59	5.10	*****	13.92	13.42		..
8012.0310	43.5143	145.9138	14.80	980506.74	14.80	*****	15.97	14.51		..
8012.0311	43.5142	145.9167	17.00	980505.99	17.00	*****	15.91	14.23		..
8012.0312	43.5133	145.9208	22.60	980505.14	22.60	*****	16.86	14.64		..
8012.0313	43.5128	145.9238	28.70	980504.92	28.70	*****	18.57	15.74		..
8012.0314	43.5122	145.9262	27.50	980504.91	27.50	*****	18.25	15.54		..
8012.0315	43.5113	145.9293	29.70	980504.22	29.70	*****	18.31	15.39		..
8012.0316	43.5108	145.9323	13.90	980506.17	13.90	*****	15.43	14.06		..
8012.0317	43.5112	145.9347	6.40	980507.52	6.40	*****	14.44	13.81		..
8012.0318	43.5117	145.9373	6.10	980508.97	6.10	*****	15.74	15.14		..
8012.0319	43.5130	145.9395	1.20	980510.90	1.20	*****	16.04	15.92		..
8012.0320	43.5133	145.9420	2.10	980511.62	2.10	*****	17.01	16.81		..
8012.0321	43.5130	145.9458	0.00	980512.93	0.00	*****	17.71	17.71		..
8012.0322	*****	*****	26.40	980512.49	26.40	*****				1981/01/15
8012.0323	*****	*****	29.20	980511.93	29.20	*****				..
8012.0324	*****	*****	36.60	980510.41	36.60	*****				..
8012.0325	*****	*****	37.80	980509.97	37.80	*****				..
8012.0326	43.5297	145.9538	2.20	980516.18	2.20	*****	20.14	19.92		1981/02/02
8012.0327	43.5252	145.9483	11.60	980511.14	11.60	*****	18.40	17.25		..
8012.0328	43.5257	145.9420	24.90	980509.99	24.90	*****	21.31	18.85		..
8012.0329	43.5258	145.9343	9.60	980511.19	9.60	*****	17.77	16.82		..
8012.0330	43.5263	145.9283	30.70	980505.85	30.70	*****	18.90	15.88		..
8012.0331	43.5258	145.9225	28.00	980506.25	28.00	*****	18.51	15.75		..
8012.0332	43.5248	145.9182	29.70	980506.41	29.70	*****	19.28	16.35		..
8012.0333	43.5237	145.9095	19.60	980508.22	19.60	*****	18.09	16.16		..
8012.0334	43.5227	145.9065	.10	980512.62	.10	*****	16.56	16.55		..
8012.0335	43.5212	145.9143	19.20	980506.81	19.20	*****	16.78	14.89		..
8012.0336	43.5225	145.9243	23.00	980506.69	23.00	*****	17.71	15.44		..
8012.0337	43.5225	145.9298	1.10	980510.92	1.10	*****	15.18	15.07		..
8012.0338	43.5225	145.9353	16.40	980510.26	16.40	*****	19.24	17.63		..
8012.0339	43.5223	145.9400	11.60	980511.21	11.60	*****	18.72	17.58		..
8012.0340	43.5223	145.9460	11.20	980512.29	11.20	*****	19.68	18.58		..
8012.0341	43.5223	145.9522	2.60	980515.67	2.60	*****	20.40	20.15		..
8012.0342	43.5275	145.9542	.80	980516.97	.80	*****	20.69	20.61		..
8012.0343	43.5175	145.9510	0.00	980514.89	0.00	*****	19.26	19.26		..
8012.0344	43.5175	145.9478	5.90	980512.31	5.90	*****	18.50	17.92		..
8012.0345	43.5180	145.9428	7.00	980511.44	7.00	*****	17.93	17.24		..
8012.0346	43.5182	145.9375	1.40	980510.63	1.40	*****	15.37	15.23		..
8012.0347	43.5190	145.9312	1.50	980509.45	1.50	*****	14.14	14.00		..
8012.0348	43.5190	145.9237	25.00	980505.98	25.00	*****	17.93	15.46		..
8012.0349	43.5187	145.9168	48.90	980501.87	48.90	*****	21.22	16.41		..
8012.0350	43.5187	145.9113	24.10	980507.05	24.10	*****	18.75	16.37		..
8012.0351	43.5193	145.9057	13.70	980509.82	13.70	*****	18.25	16.90		..
8012.0352	43.5203	145.9020	3.10	980513.49	3.10	*****	18.56	18.25		..

8012.001

15/01/8

DATUM = EDM MD

1981/02/02

STATION NUMBER.	LATITUDE SOUTH. (DEGREES)	LONGITUDE EAST. (DEGREES)	METER ELEVATION (METRES)	OBSERVED GRAVITY. (MGAL)	GROUND ELEVATION (METRES)	TERRAIN CORRECTION FOR 2.35	FREE AIR ANOMALY. (MGAL)	BOUGUER ANOMALY. FOR 2.35	INFORMAL STATION NAME, NUMBER, BENCHMARK, ETC.	* LAST DATE STATION UPDATED
8012.0353	43.5147	145.9082	2.70	980510.82	2.70	*****	16.28	16.01		1981/02/02
8012.0354	43.5140	145.9280	16.70	980507.74	16.70	*****	17.57	15.93		..
8012.0355	43.5137	145.9352	4.90	980510.82	4.90	*****	17.04	16.56		..
8012.0356	43.5143	145.9445	.20	980513.44	.20	*****	18.16	18.14		..
8012.0357	43.5142	145.9523	.30	980512.60	.30	*****	17.36	17.33		..
8012.0358	43.5070	145.9392	.40	980510.77	.40	*****	16.21	16.17		..
8012.0359	43.5077	145.9332	8.00	980507.20	8.00	*****	14.92	14.13		..
8012.0360	43.5080	145.9277	30.80	980502.83	30.80	*****	17.56	14.53		..
8012.0361	43.5077	145.9220	14.20	980505.04	14.20	*****	14.67	13.28		..
8012.0362	43.5078	145.9153	18.90	980503.31	18.90	*****	14.39	12.53		..
8012.0363	43.5113	145.9145	13.40	980506.06	13.40	*****	15.12	13.80		..
8012.0364	43.5112	145.9208	16.10	980505.43	16.10	*****	15.34	13.76		..
8012.0365	43.5025	145.9172	20.30	980501.71	20.30	*****	13.70	11.70		..
8012.0366	43.5020	145.9237	12.20	980504.26	12.20	*****	13.79	12.59		..
8012.0367	43.5020	145.9290	19.90	980504.07	19.90	*****	15.98	14.02		..
8012.0368	43.5020	145.9337	0.00	980509.17	0.00	*****	14.93	14.93		..
8012.0369	43.5018	145.9413	.20	980510.70	.20	*****	16.54	16.52		..
8012.0370	43.4983	145.9250	22.00	980500.85	22.00	*****	12.74	11.57		..
8012.0371	43.4975	145.9190	34.40	980497.53	34.40	*****	14.32	10.93		..
8012.0372	43.4973	145.9135	38.50	980495.09	38.50	*****	13.16	9.37		..
8012.0373	43.4977	145.9053	44.00	980493.77	44.00	*****	13.50	9.17		..
8012.0374	43.4930	145.9032	32.20	980494.33	*****	*****	10.85			..
8012.0375	43.4927	145.9115	29.80	980495.13	29.80	*****	10.93	7.99		..
8012.0376	43.4933	145.9200	22.30	980496.30	22.30	*****	9.73	7.53		..
8012.0377	43.4933	145.9235	22.30	980498.82	22.30	*****	12.24	10.05		..
8012.0378	43.4930	145.9273	1.10	980503.35	1.10	*****	10.26	10.15		..
8012.0379	43.4930	145.9318	0.00	980507.10	0.00	*****	13.68	13.68		..
8012.0380	43.4877	145.9348	13.80	980500.20	13.80	*****	11.52	10.16		..
8012.0381	43.4870	145.9260	16.50	980498.58	16.50	*****	10.79	9.16		..
8012.0382	43.4885	145.9208	16.20	980497.93	16.20	*****	9.92	8.32		..
8012.0383	43.4887	145.9157	17.70	980496.84	17.70	*****	9.27	7.53		..
8012.0384	43.4878	145.9077	18.20	980495.23	18.20	*****	7.89	6.09		..
8012.0385	43.4835	145.9087	18.50	980494.15	18.50	*****	7.29	5.47		..
8012.0386	43.4828	145.9143	15.20	980496.29	15.20	*****	8.47	6.97		..
8012.0387	43.4830	145.9200	22.20	980496.92	22.20	*****	11.25	9.07		..
8012.0388	43.4832	145.9262	21.50	980498.17	21.50	*****	12.27	10.15		..
8012.0389	43.4840	145.9322	24.90	980499.60	24.90	*****	14.67	12.22		..
8012.0390	43.4836	145.9383	0.00	980506.64	0.00	*****	14.04	14.04		..
8012.0391	43.4792	145.9540	0.00	980507.33	0.00	*****	15.15	15.15		..
8012.0392	43.4798	145.9468	0.00	980507.12	0.00	*****	14.89	14.89		..
8012.0393	43.4802	145.9410	0.00	980506.84	0.00	*****	14.57	14.57		..
8012.0394	43.4797	145.9357	21.70	980499.13	21.70	*****	13.61	11.47		..
8012.0395	43.4797	145.9305	15.20	980499.67	15.20	*****	12.14	10.65		..
8012.0396	43.4802	145.9242	30.10	980496.28	30.10	*****	13.30	10.34		..
8012.0397	43.4807	145.9183	22.00	980496.36	22.00	*****	10.84	8.67		..
8012.0398	43.4798	145.9125	18.20	980494.55	18.20	*****	7.93	6.14		..
8012.0399	43.4748	145.9073	19.60	980492.22	19.60	*****	6.48	4.55		..
8012.0400	43.4745	145.9158	24.30	980493.40	24.30	*****	9.14	6.75		..
8012.0401	43.4746	145.9213	38.70	980491.59	38.70	*****	11.75	7.94		..
8012.0402	43.4752	145.9262	30.90	980494.53	30.90	*****	12.25	9.21		..

863135

8012.001

15/01/78

DATUM = EDM MO

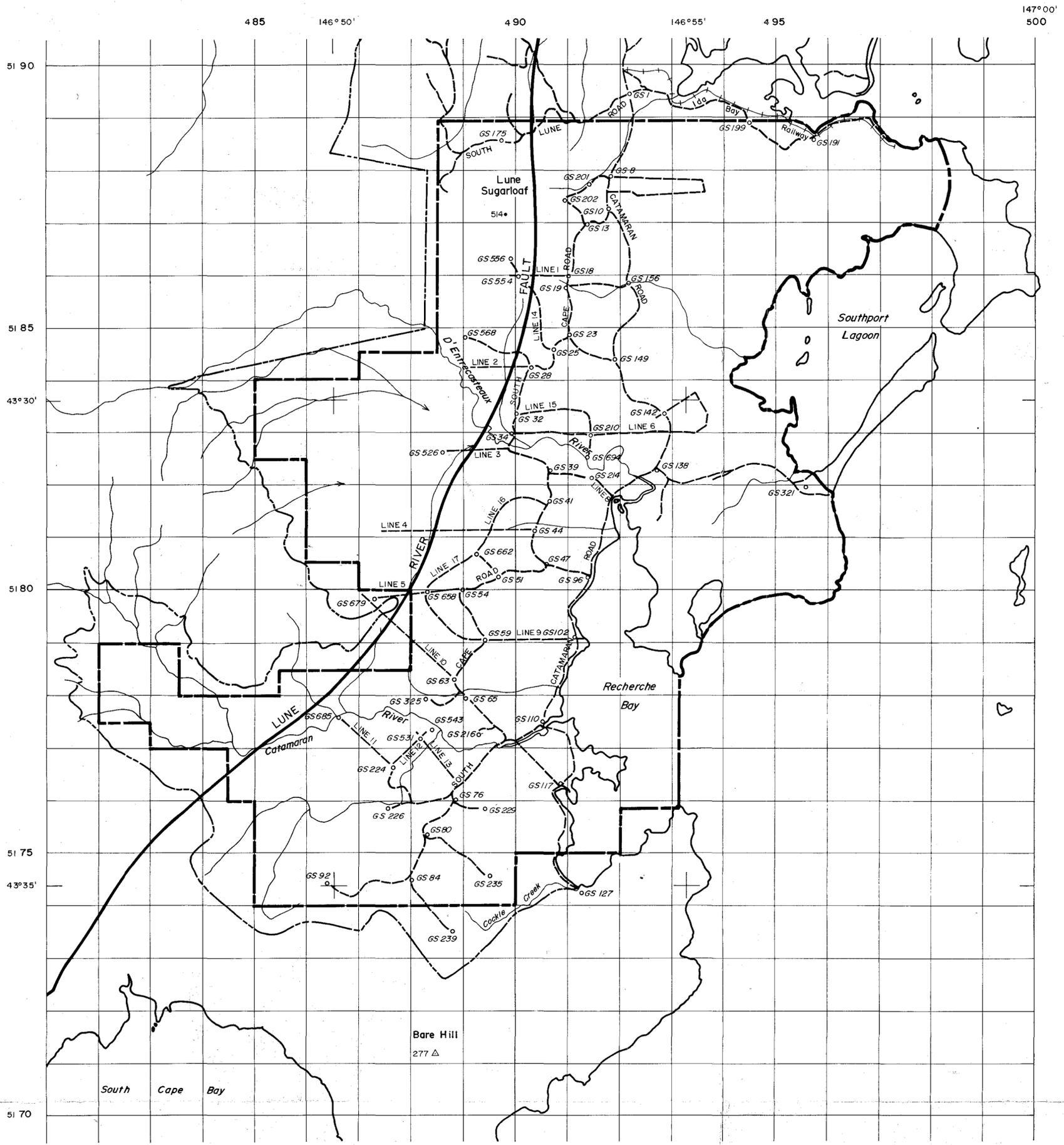
1981/02/02

STATION NUMBER.	LATITUDE SOUTH. (DEGREES)	LONGITUDE EAST. (DEGREES)	METER ELEVATION (METRES)	OBSERVED GRAVITY. (MGAL)	GROUND ELEVATION (METRES)	TERRAIN CORRECTION FOR 2.35	FREE AIR ANOMALY. (MGAL)	BOUGUER ANOMALY. FOR 2.35	INFORMAL STATION NAME, NUMBER, BENCHMARK, ETC.	* LAST DATE STATION UPDATED
8012.0403	43.4730	145.9342	31.60	980495.11	31.60	*****	13.24	10.13		1981/02/02
8012.0404	43.4752	145.9412	19.60	980501.06	19.60	*****	15.29	13.36		..
8012.0405	43.4750	145.9487	12.90	980502.74	12.90	*****	14.92	13.65		..
8012.0406	43.4697	145.9468	20.90	980501.06	20.90	*****	16.19	14.13		..
8012.0407	43.4692	145.9395	19.50	980500.35	19.50	*****	15.09	13.17		..
8012.0408	43.4693	145.9327	33.10	980494.30	33.10	*****	13.22	9.96		..
8012.0409	43.4693	145.9248	*****	*****	*****	*****				..
8012.0410	43.4642	145.9313	32.20	980493.15	32.20	*****	12.27	9.09		..
8012.0411	43.4642	145.9373	13.90	980498.44	13.90	*****	11.90	10.53		..
8012.0412	43.4650	145.9438	19.40	980500.21	19.40	*****	15.30	13.39		..
8012.0413	43.4652	145.9487	13.10	980502.47	13.10	*****	15.60	14.31		..
8012.0414	43.4612	145.9438	48.20	980495.30	48.20	*****	19.62	14.87		..
8012.0415	43.4607	145.9400	29.30	980498.21	29.30	*****	16.74	13.86		..
8012.0416	43.4590	145.9340	44.30	980494.05	44.30	*****	17.36	13.00		..
8012.0417	43.4617	145.9238	23.00	980495.93	23.00	*****	12.43	10.16		..
8012.0418	43.4590	145.9145	57.50	*****	57.50	*****				..
8012.0419	43.4585	145.9228	53.00	980489.54	53.00	*****	15.58	10.36		..
8012.0420	43.4563	145.9290	11.60	980499.35	11.60	*****	12.82	11.67		..
8012.0421	43.4563	145.9333	16.40	980498.71	16.40	*****	13.66	12.04		..
8012.0422	43.4590	145.9423	19.50	980498.95	19.50	*****	14.61	12.69		..
8012.0423	43.4530	145.9297	5.90	980500.63	5.90	*****	12.63	12.05		..
8012.0424	43.4533	145.9177	5.90	980496.79	5.90	*****	8.76	8.18		..
8012.0425	43.4527	145.9115	14.80	980494.76	14.80	*****	9.54	8.08		..

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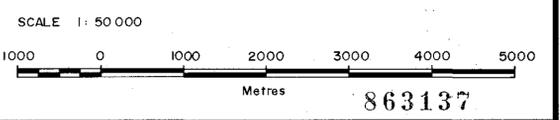
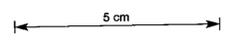
\*\*\*\*\* END-FILE \*\*\*\*\*

863136



**TOPOGRAPHIC LEGEND**

- Sealed Road
- - - - - Unsealed Road
- E. L. Boundary
- - - - - S. W. A. C. Boundary



**REFERENCE**

- o GS 235 Gravity Station
- - - - - Magnetic Traverse

**Marathon Petroleum Australia, Ltd**  
Brisbane Australia

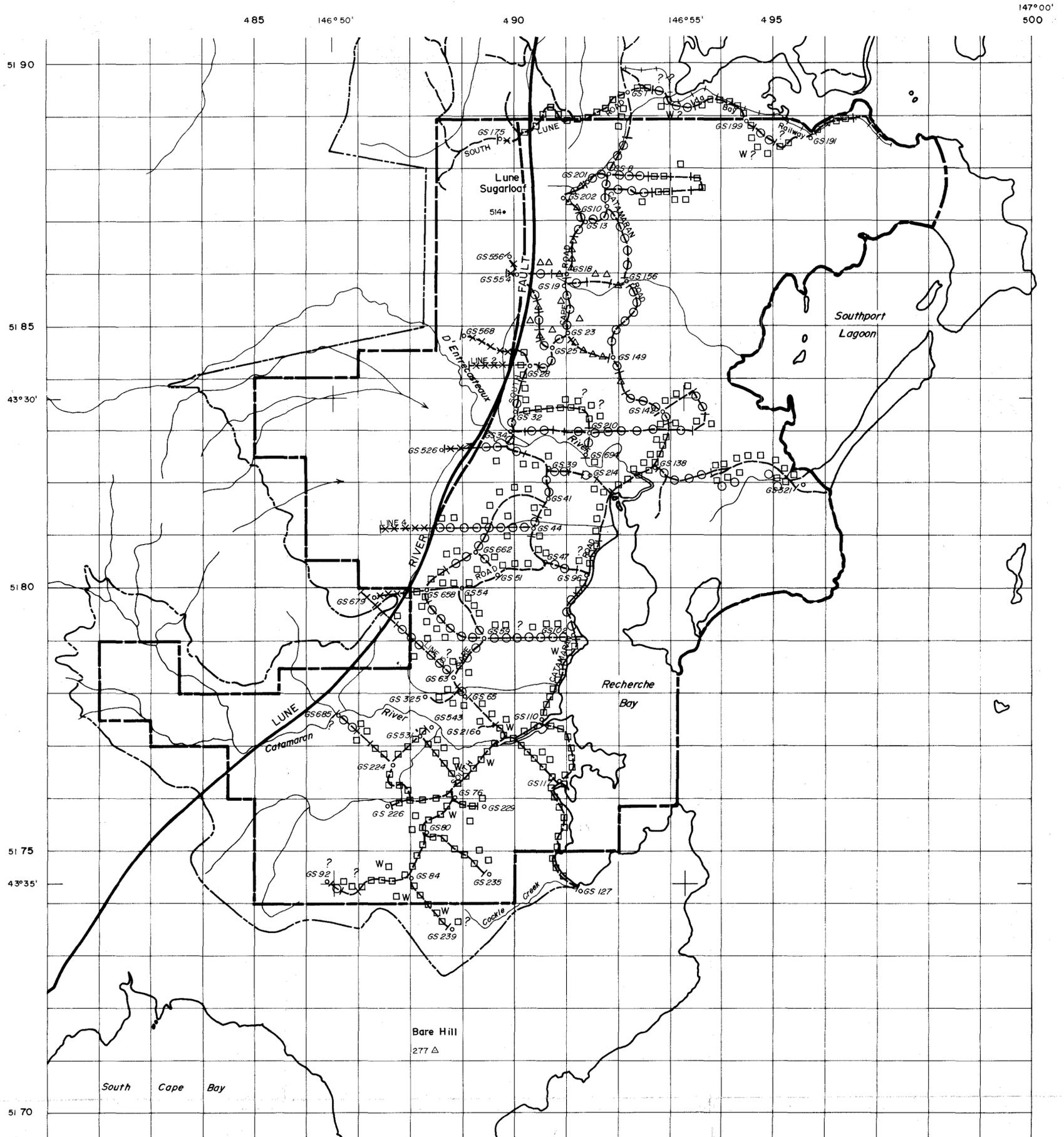
South East Cape (Sh. 8210) Tasmania  
**E.L. 6/79 Catamaran - Tasmania Project**

Plan Showing

**LOCATION OF GROUND MAGNETIC TRAVERSES**

DRAWN BY J. Andrews	DATE AUG. '81	MAP No. C.M. 013b	FILE ORDER
ORIGINAL DATA	DATE	REVISED BY	DATE

**PLATE 22**



**REFERENCE**

- GS 92 Gravity Station
- Magnetic Traverse
- △ Basalt / Talus
- Dolerite / Talus
- X Permian Sediments
- Triassic Sediments
- W Weathered
- ? Uncertain
- Fault
- - - Fault (changed position)

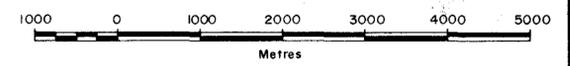
**TOPOGRAPHIC LEGEND**

- Sealed Road
- - - Unsealed Road
- E.L. Boundary
- - - S.W.A.C. Boundary

863138

5 cm

SCALE 1:50 000



**Marathon Petroleum Australia, Ltd**  
 Brisbane Australia

South East Cape (Sh. 8210) Tasmania  
 E.L. 6/79 Catamaran - Tasmania Project

Plan Showing

**MAGNETIC INTERPRETATION**

DRAWN BY J. Andrews	DATE Aug '81	MAP No FILE	C.M. 0130
ORIGINAL DATA Leaman Geophysics	DATE	REVISED BY	DATE